

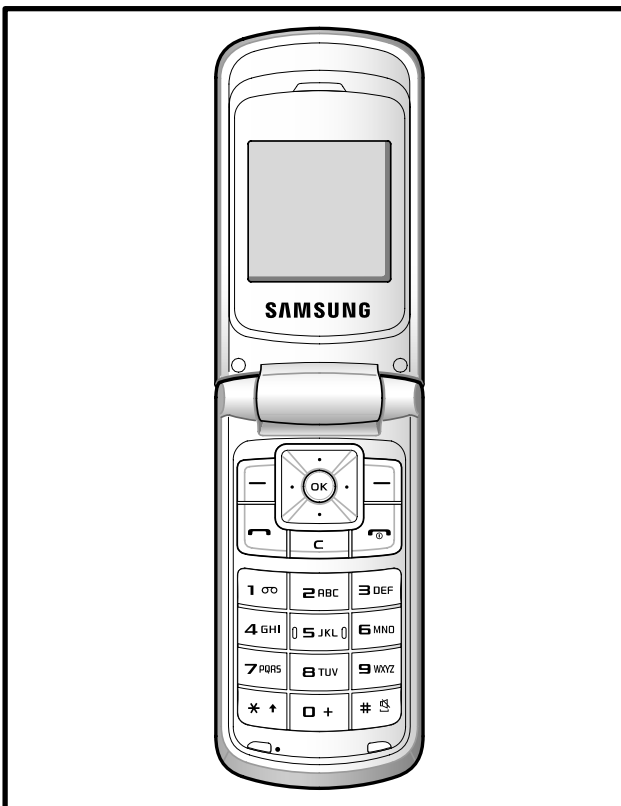
SAMSUNG

GSM TELEPHONE

SGH-B300

SERVICE *Manual*

GSM TELEPHONE



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**SAMSUNG
ELECTRONICS**



GSPN (Global Service Partner Network)

Country	Web Site
North America	service.samsungportal.com
Latin America	latin.samsungportal.com
CIS	cis.samsungportal.com
Europe	europe.samsungportal.com
China	china.samsungportal.com
Asia	asia.samsungportal.com
Mideast & Africa	mea.samsungportal.com

2. Specification

2-1. GSM General Specification

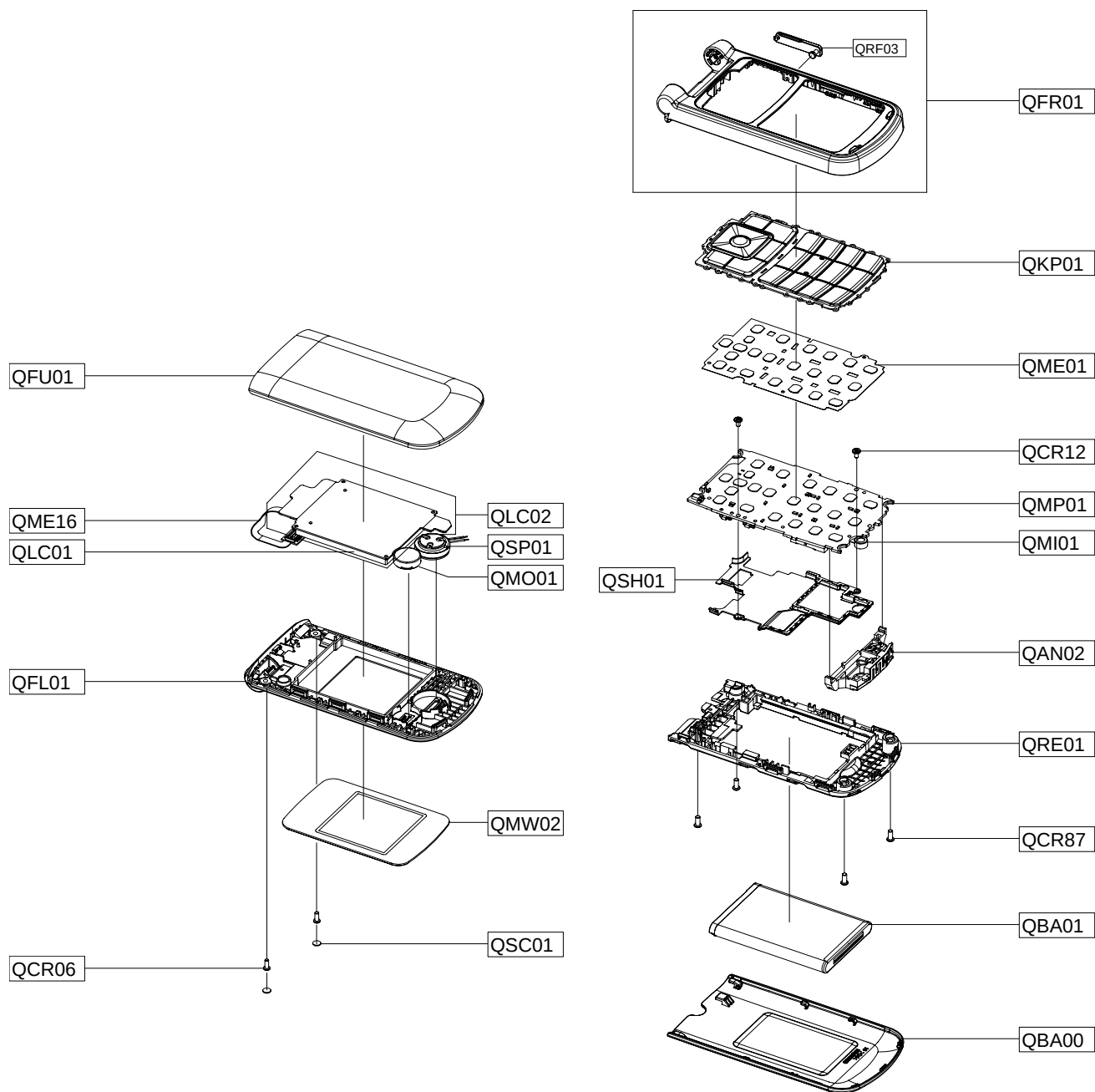
	EGSM 900 Phase 2	DCS1800 Phase 1
Freq. Band[MHz] Uplink/Downlink	880~915 925~960	1710~1785 1805~1880
ARFCN range	0~124 & 975~1023	512~885
Tx/Rx spacing	45 MHz	95 MHz
Mod. Bit rate/ Bit Period	270.833 kbps 3.692 us	270.833 kbps 3.692 us
Time Slot Period/Frame Period	576.9 us 4.615 ms	576.9 us 4.615 ms
Modulation	0.3 GMSK	0.3 GMSK
MS Power	33 dBm~5 dBm	30 dBm~0 dBm
Power Class	5 pcl ~ 19 pcl	0 pcl ~ 15 pcl
Sensitivity	-102 dBm	-100 dBm
TDMA Mux	8	8
Cell Radius	35 Km	2 Km

2-2. GSM Tx Power Class

TX Power control level	GSM900	TX Power control level	DCS1800
5	33±2 dBm	0	30±3 dBm
6	31±2 dBm	1	28±3 dBm
7	29±2 dBm	2	26±3 dBm
8	27±2 dBm	3	24±3 dBm
9	25±2 dBm	4	22±3 dBm
10	23±2 dBm	5	20±3 dBm
11	21±2 dBm	6	18±3 dBm
12	19±2 dBm	7	16±3 dBm
13	17±2 dBm	8	14±3 dBm
14	15±2 dBm	9	12±4 dBm
15	13±2 dBm	10	10±4 dBm
16	11±3 dBm	11	8±4 dBm
17	9±3 dBm	12	6±4 dBm
18	7±3 dBm	13	4±4 dBm
19	5±3 dBm	14	2±5 dBm
		15	0±5 dBm

5. Exploded View and Parts List

5-1. Cellular phone Exploded View

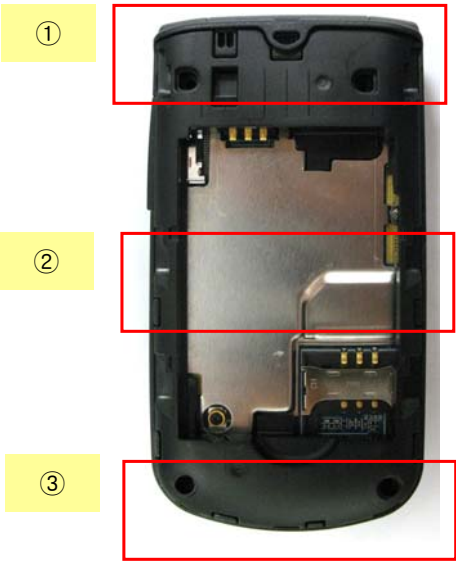
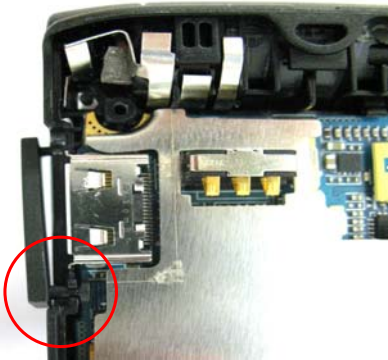
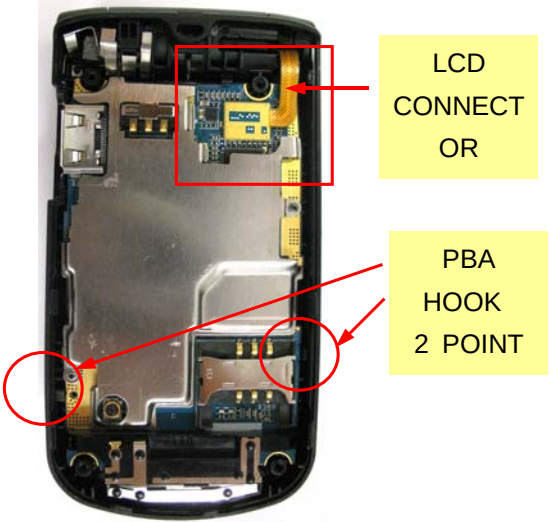


5-2. Cellular phone Parts list

Design LOC		Discription	SEC CODE
QAN02		INTENNA-SGHB300	GH42-01534A
QBA00		PMO COVER-BATTERY	GH72-46670A
QBA01		INNER BATTERY PACK-750MAH,BLK,	GH43-02483A
QCR06		SCREW-MACHINE	6001-001155
QCR12		SCREW-MACHINE	6001-001530
QCR87		SCREW-TAPPING	6002-001412
QFL01		ASSY CASE-LOWER	GH98-07688A
QFU01		ASSY CASE-UPPER	GH98-07689A
QKP01		ASSY KEYPAD-(XEF/DGA)	GH98-07671A
QLC01		LCD-MODULE SGHB110L	GH07-01241A
QLC02		ELA UNIT-SGHB300 LCD MODULE SV	GH96-03067A
QME01		DOME SHEET-SGHB300	GH59-05506A
QME16		UNIT-SGHB300 CON TO CON	GH59-05509A
QMI01		MICROPHONE-ASSY-SGHB300	GH30-00467A
QMO01		MOTOR DC-SGHZ130	GH31-00154C
QMP01		PBA MAIN-SGHB300	GH92-04468A
QMW02		PMO WINDOW-MAIN	GH72-46665A
QRE01		ASSY CASE-REAR	GH98-07686A
QSC01		TAPE-COVER SCREW LOWER	GH74-38101A
QSH01		ASSY BRACKET-SHIELD CAN	GH98-07685A
QSP01		SPEAKER	3001-002344
QFR01		ASSY CASE-FRONT	GH98-07687A
	QRF03	PMO COVER-EAR	GH72-46664A

7. Disassembly and Assembly Instructions

7-1. Disassembly

1 	2 
1) Release SCREW 4 POINT at Rear. ※ Caution 1) Be careful not to make scratch.	1) Disjoint HOOK from up to down. ※ Caution 1) Be careful Hook damage when you Disjoint a REAR.
3  IF COVER HOOK	4  LCD CONNECT OR PBA HOOK 2 POINT
1) Seperate the IF COVER front FRONT.	1) Disjoint LCD CONNECTOR. 2) Separate PBA from FRONT.

5



- 1) Put tweezers to Front hole and Press down a Hinge.
- 2) Separate FRONT and FOLDER ASS'Y during doing NO.1.

※ **Caution**

- 1) Beware that you do not damage LCD F-PCB.
- 2) Be careful that you do not make scratch when you press down a Hinge.

6



- 1) Remove SCREW CAP using tweezers.(2POINT)
- 2) Release SCREW.

※ **Caution**

- 1) Be careful not to make scratch and molding damage!

7

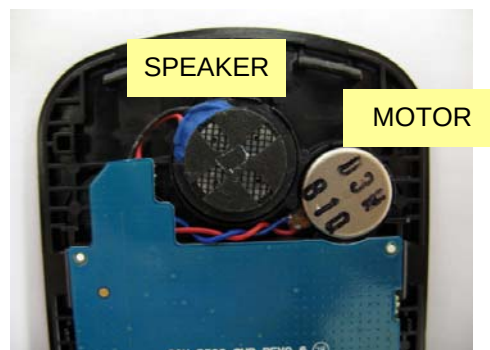


- 1) Separate UPPER from LOWER.
Release a HOOK which locate upside first.

※ **Caution**

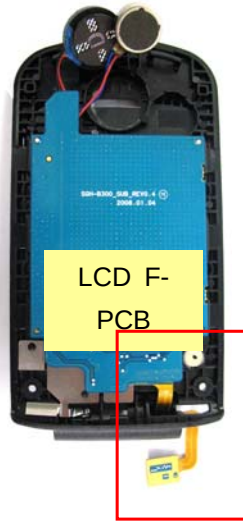
- 1) Be careful Hook damage when you disjoint a UPPER.

8



- 1) Separate MOTOR from the LOWER
- 2) Separate SPEAKER from the LOWER

9

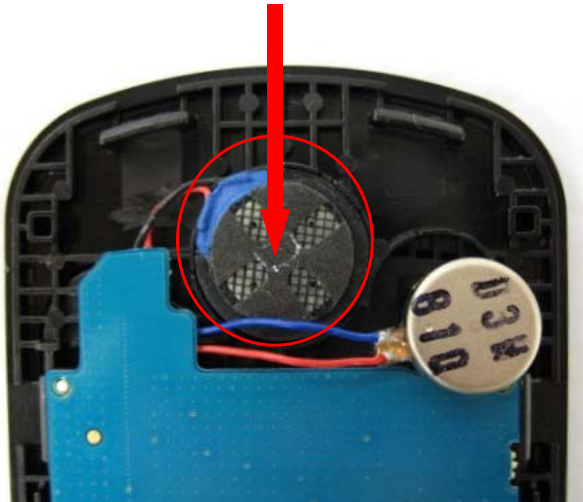
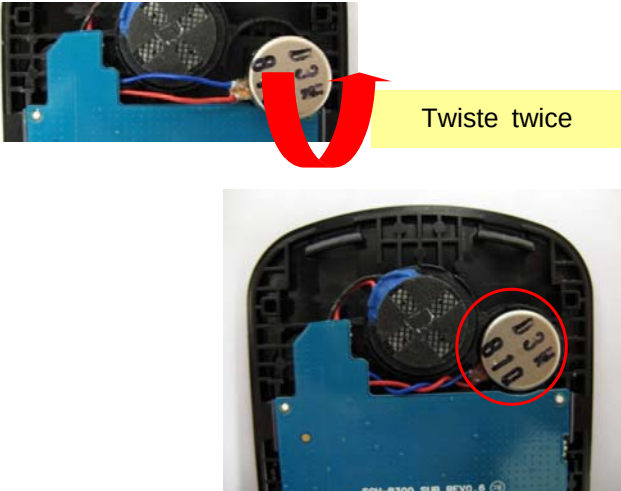


1) Separate a Folder LOWER and LCD MODULE.

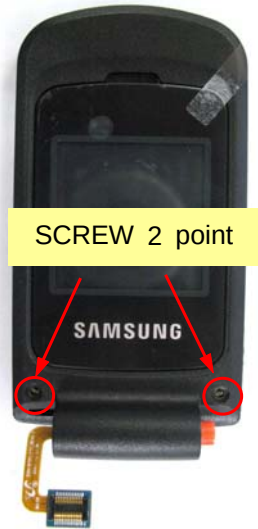
※ **Caution**

- 1) Beware that you do not damage LCD F-PCB.
- 2) Beware that you do not damage F-PCB when you passing F-PCB to hole of LOWER

7-2. Assembly

1 	2 
1) Put LCD F-PCB into the hole of LOWER. 2) Put LCD Ass'y in Folder Lower. ※ Caution 1) Be careful not to make scratch and molding damage. 2) Beware that you do not damage F-PCB when you insert F-PCB to hole of LOWER	1) Put the SPEAKER on the UPPER ※ Caution 1) Arrange WIRE not to be interfered with other components.
3 	4 
1) Twist the MOTOR wire twice, then put into the LOWER ※ Caution 1) Arrange WIRE not to be interfered with other components.	1) Assemble Folder Lower and Folder Upper from upside. ※ Caution 1) Be careful not to make scratch and molding damage. 2) Check GAP is exist after finish assembly.

5



- 1) Screw up two screws at FOLDER LOWER.
- 2) Put in screw caps.

※ **Caution**

- 1) Be careful not to make scratch and molding damage!

6



- 1) Insert F-PCB to hole of FRONT.
- 2) Assemble while pressing the hinge.

※ **Caution**

- 1) Beware that you do not damage F-PCB when you insert F-PCB to hole of FRONT
- 2) Open and close a folder 2~3 times to Check there is a problem or not.

7

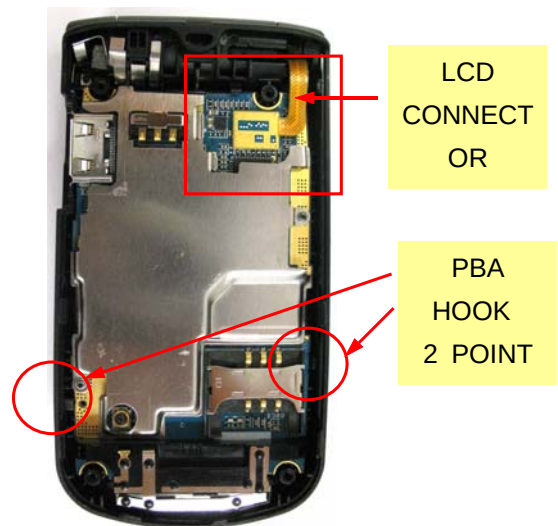


- 1) Set KEYPAD on the FRONT.

※ **Caution**

- 1) Check the KEYPAD's guide hole.

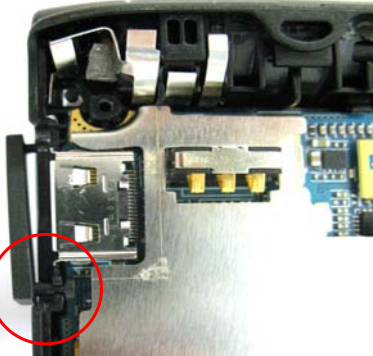
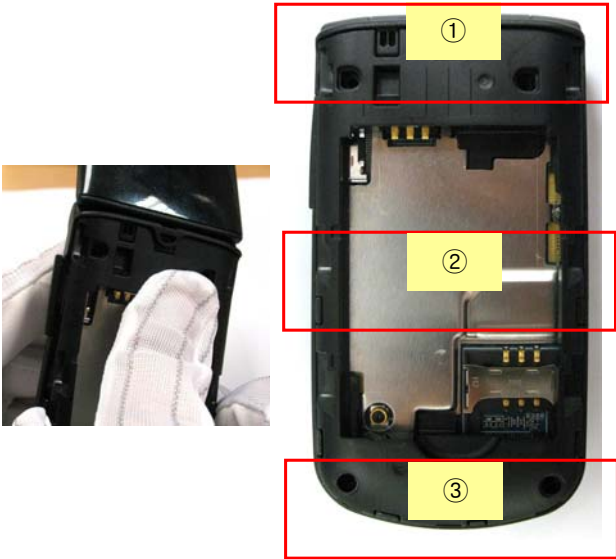
8



- 1) Set a PBA.
- 2) Connect RF CONNECTOR.

※ **Caution**

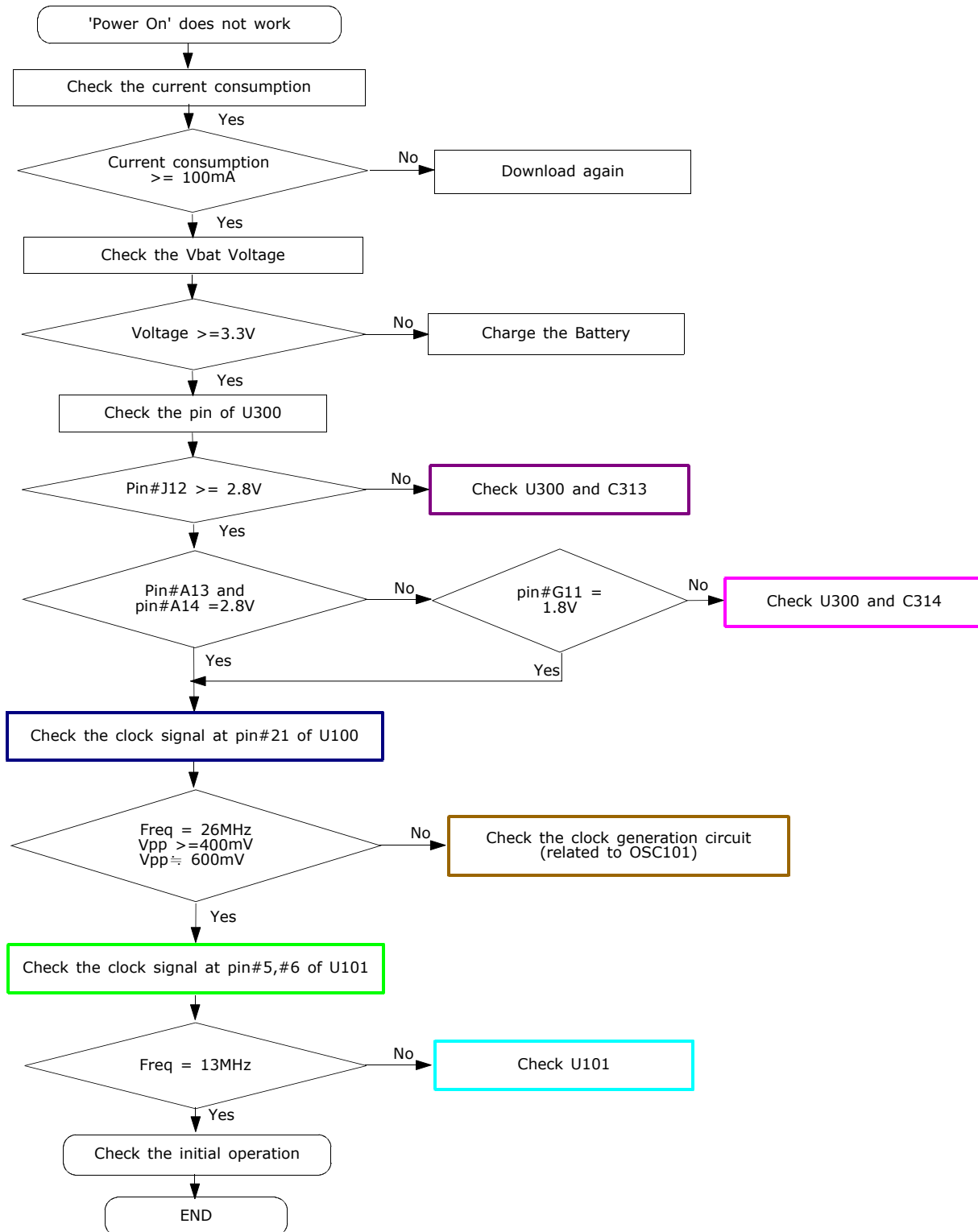
- 1) Be careful not to make scratch and molding damage!

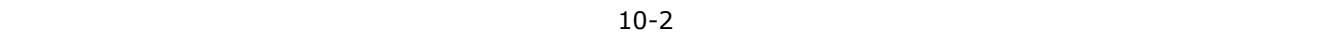
9  IF COVER HOOK	10  1) Assemble REAR and FRONT ass'y from upside. ※ Caution 1) Be careful not to make scratch and molding damage! 2) Check GAP is exist after finish assembly.
11  1) Attach lower screw sheet. ※ Caution 1) Be careful not to make scratch and molding damage!	

10. Flow Chart of Troubleshooting

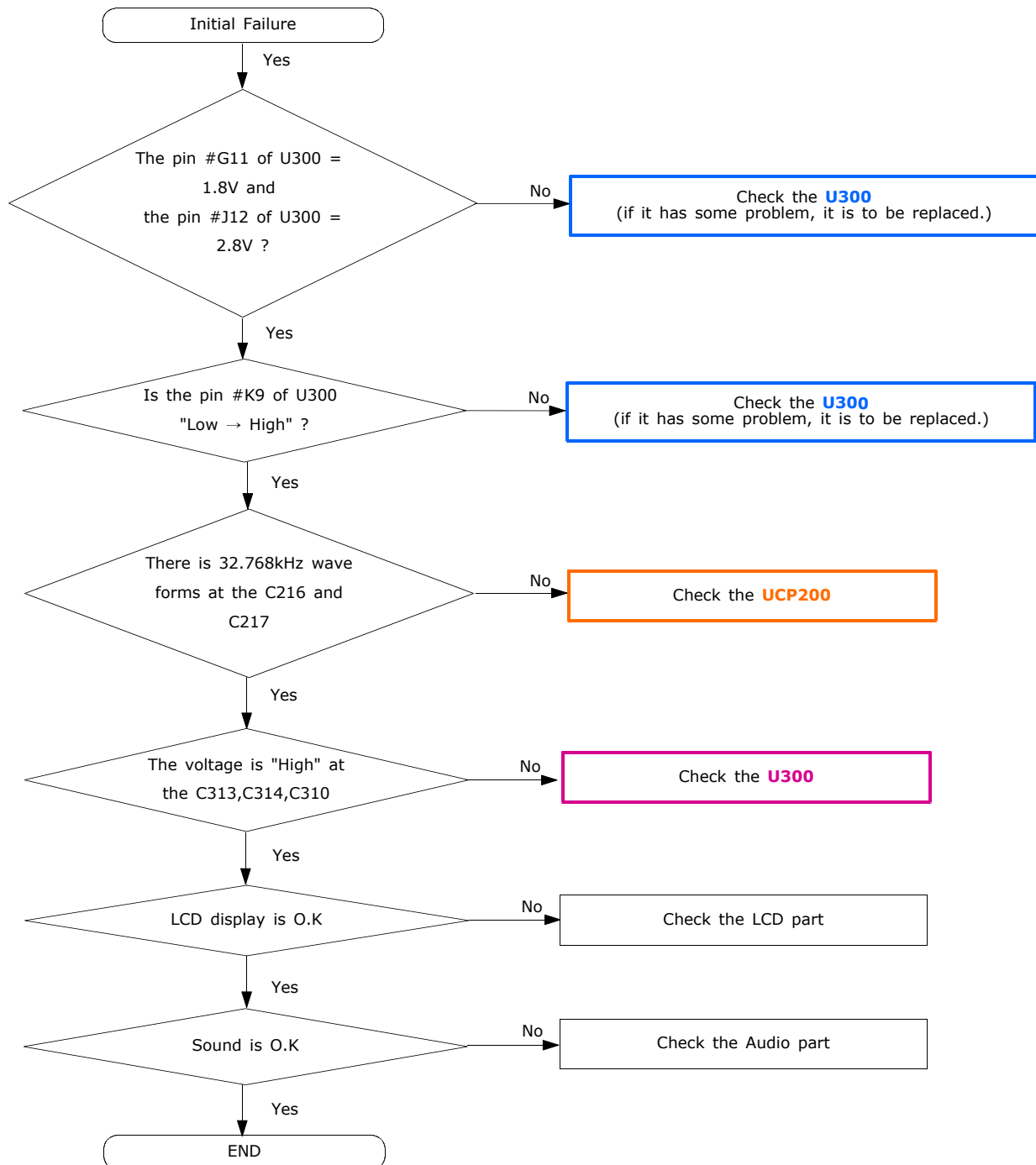
10-1.Baseband

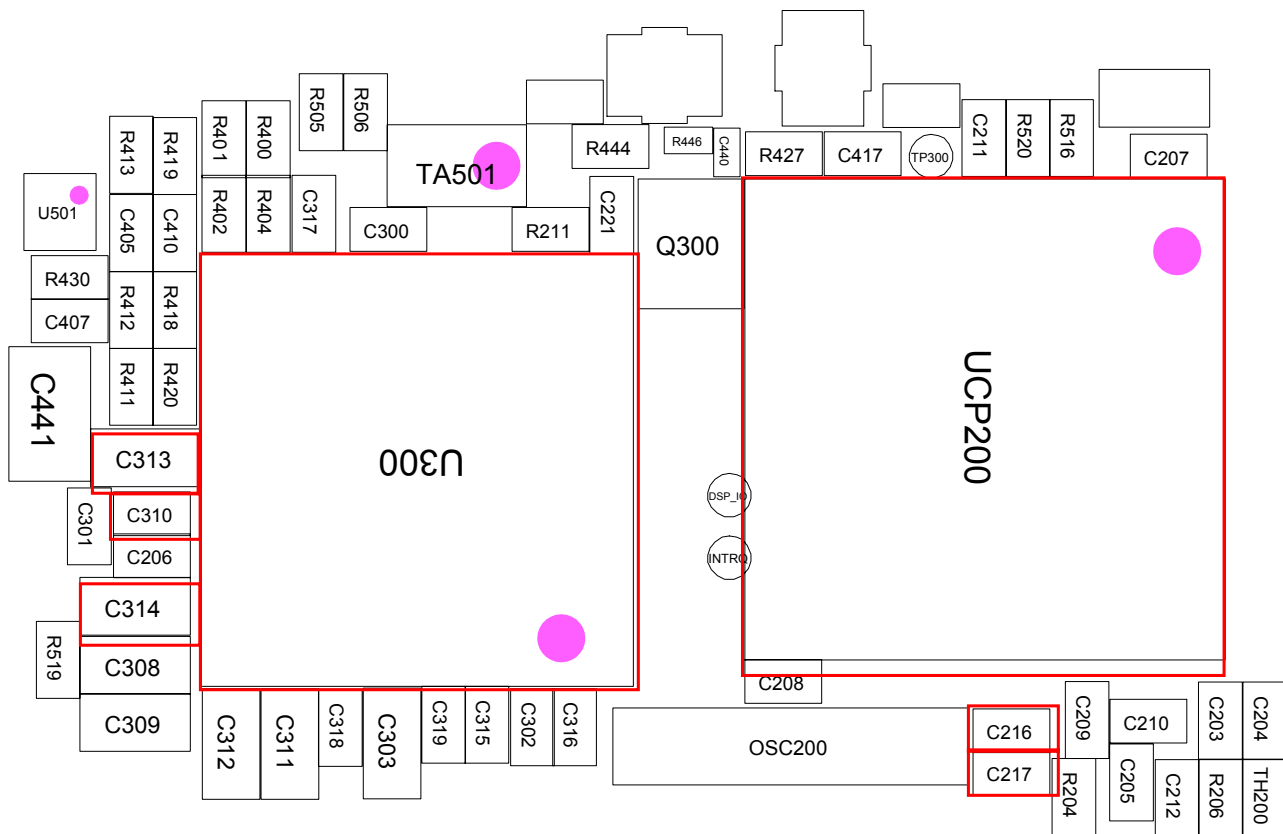
10-1-1. Power ON



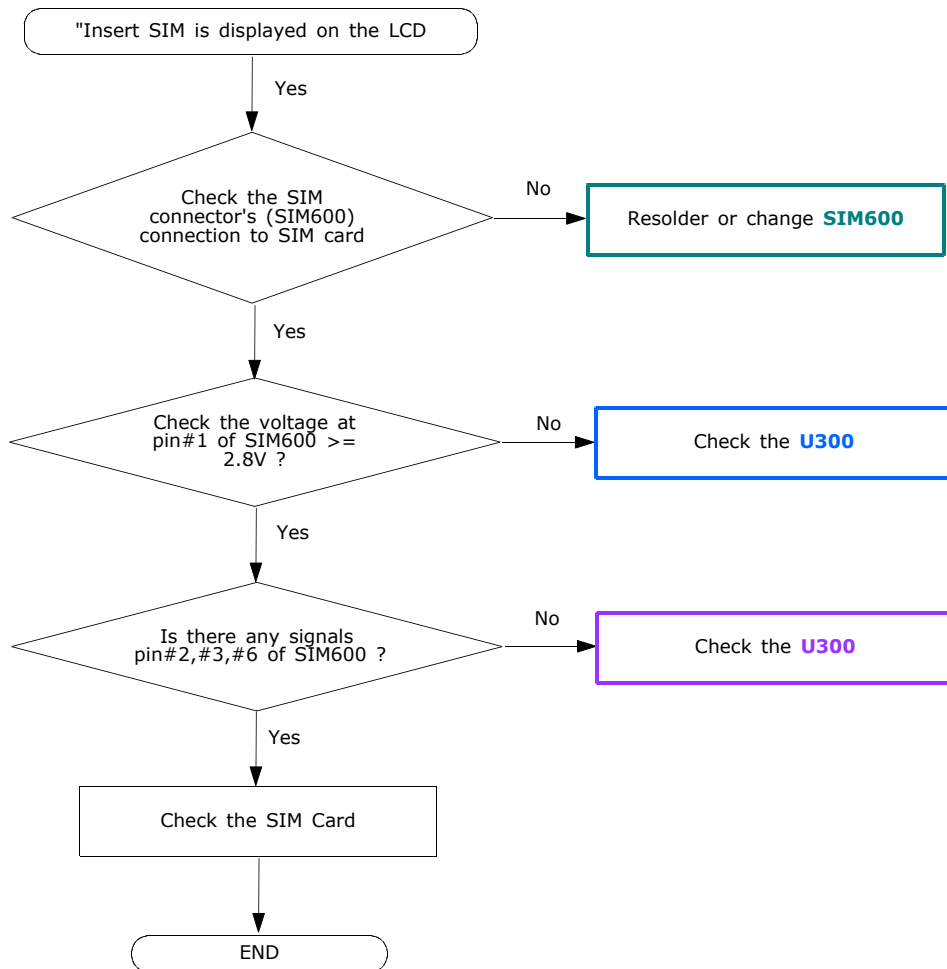


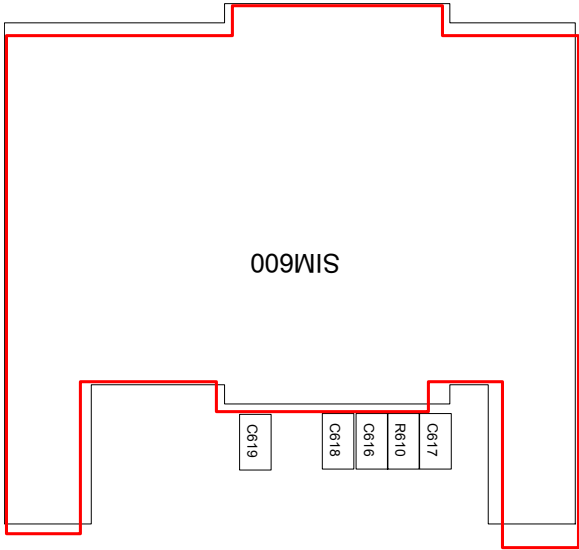
10-1-2. System Initial



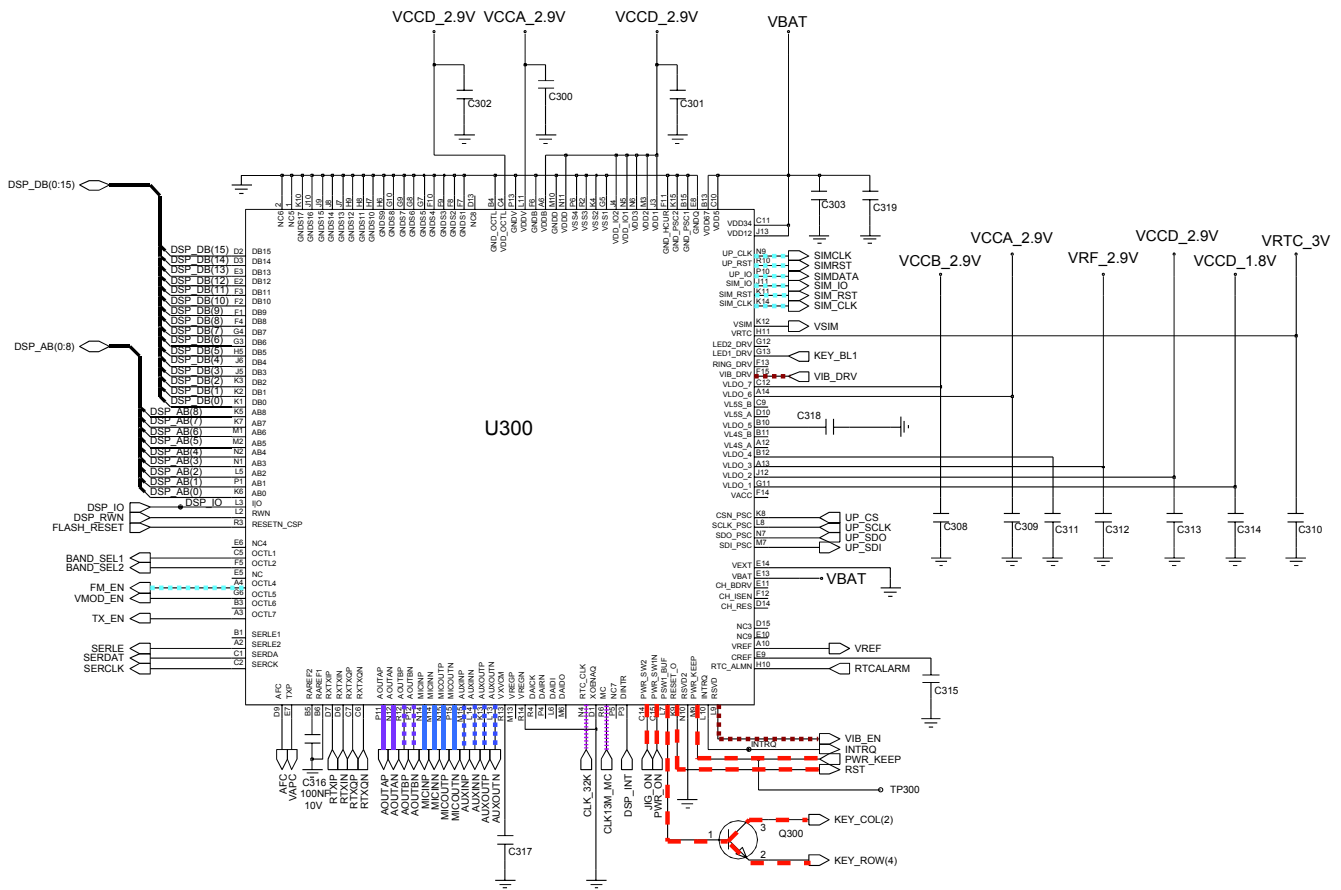
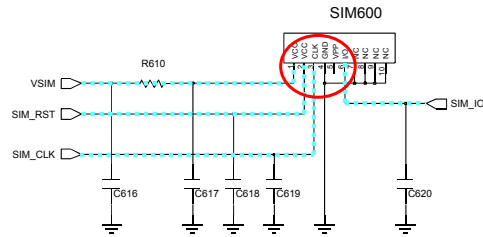
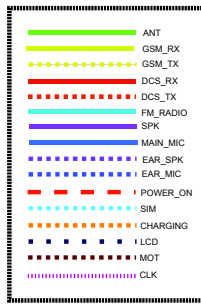


10-1-3. Sim Part

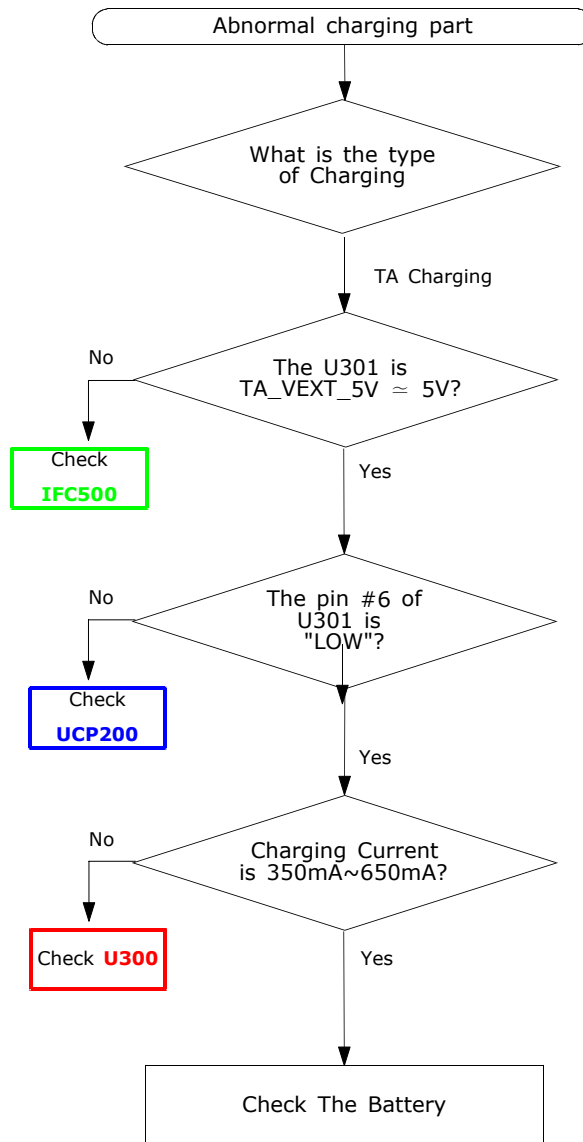




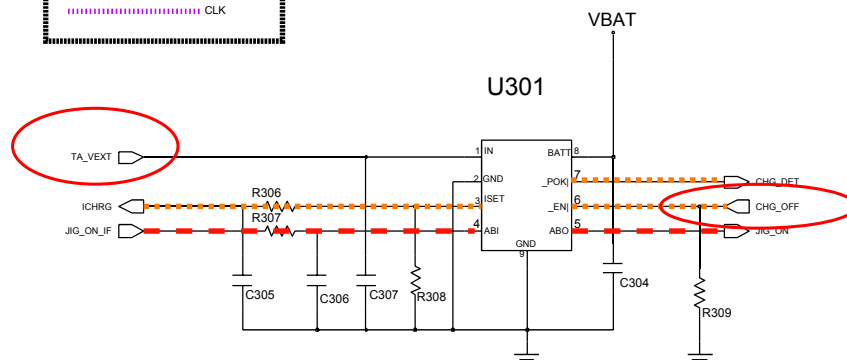
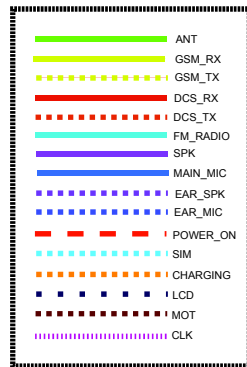
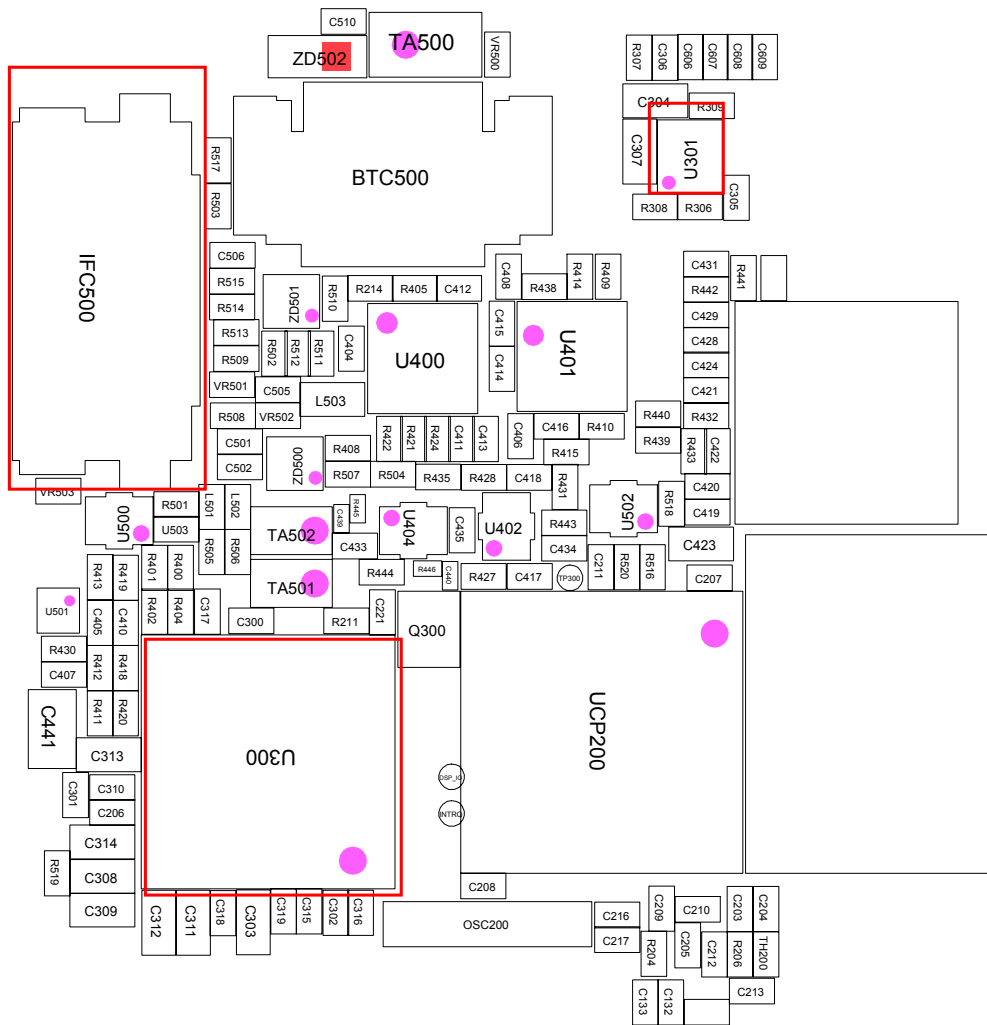
Flow Chart of Troubleshooting



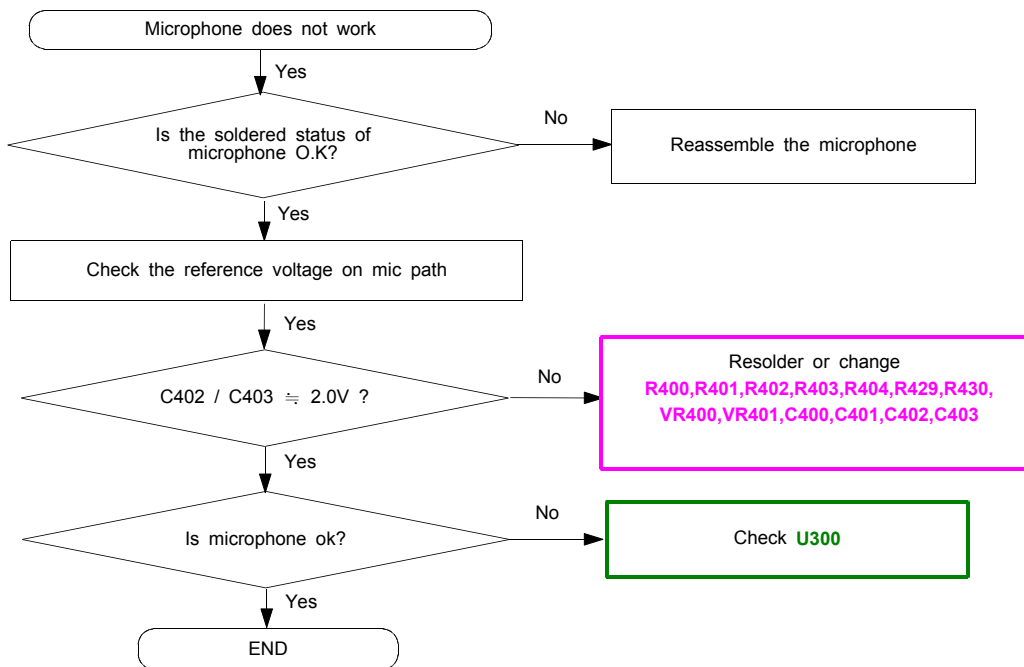
10-1-4. Charging Part



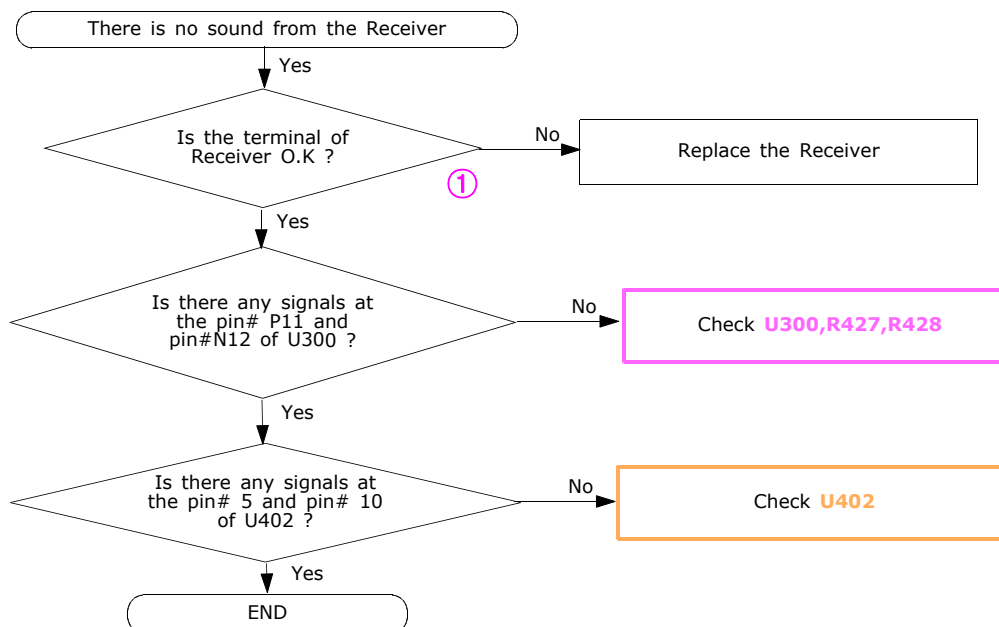
Flow Chart of Troubleshooting



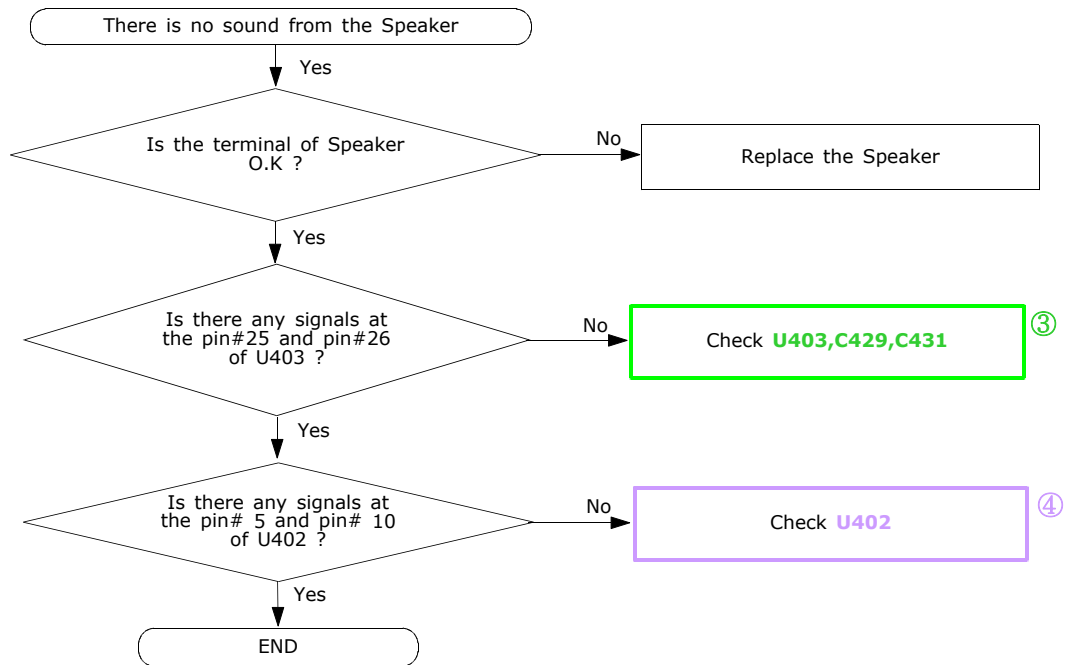
10-1-5. Microphone Part

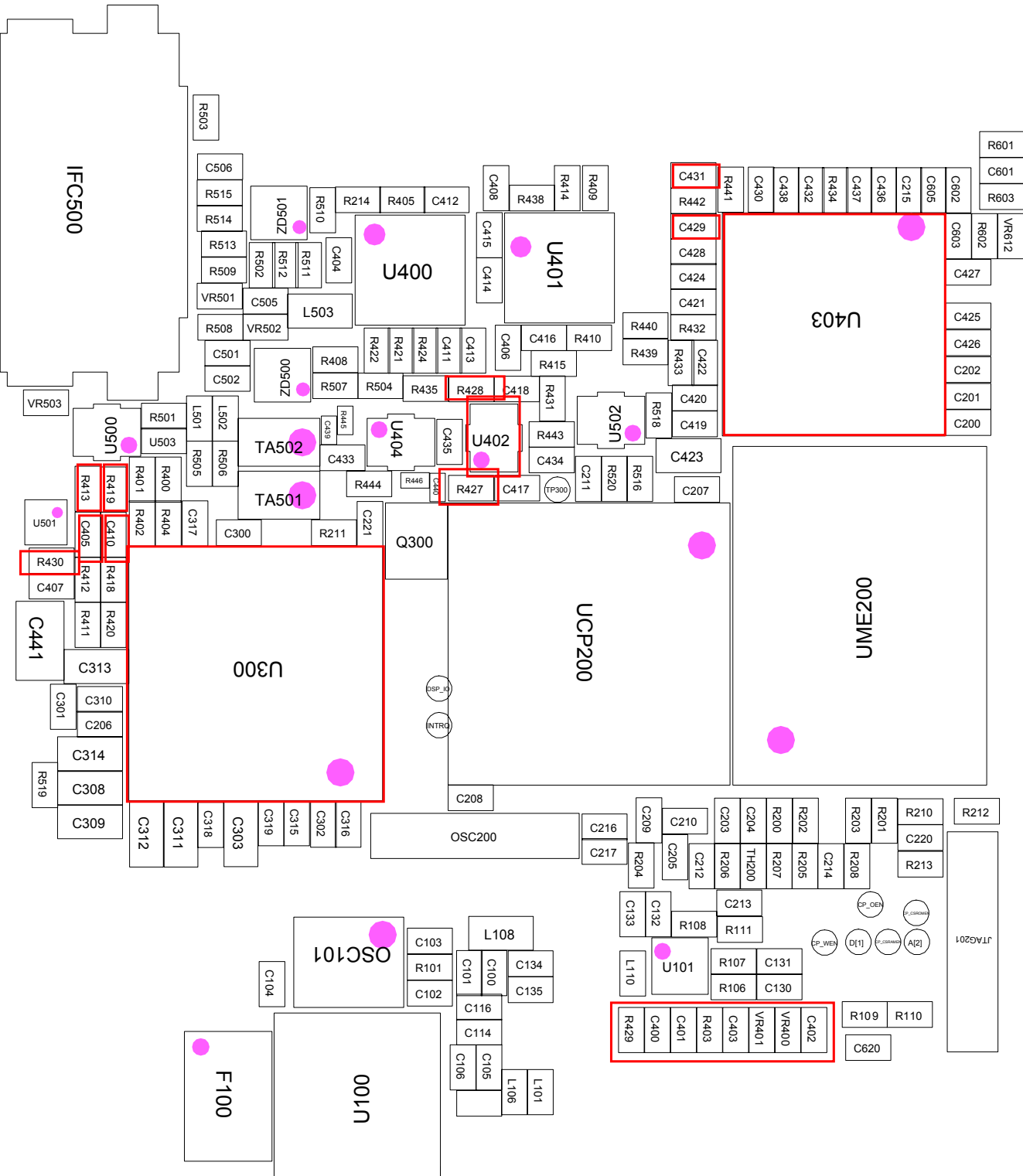


10-1-6. Receiver Part

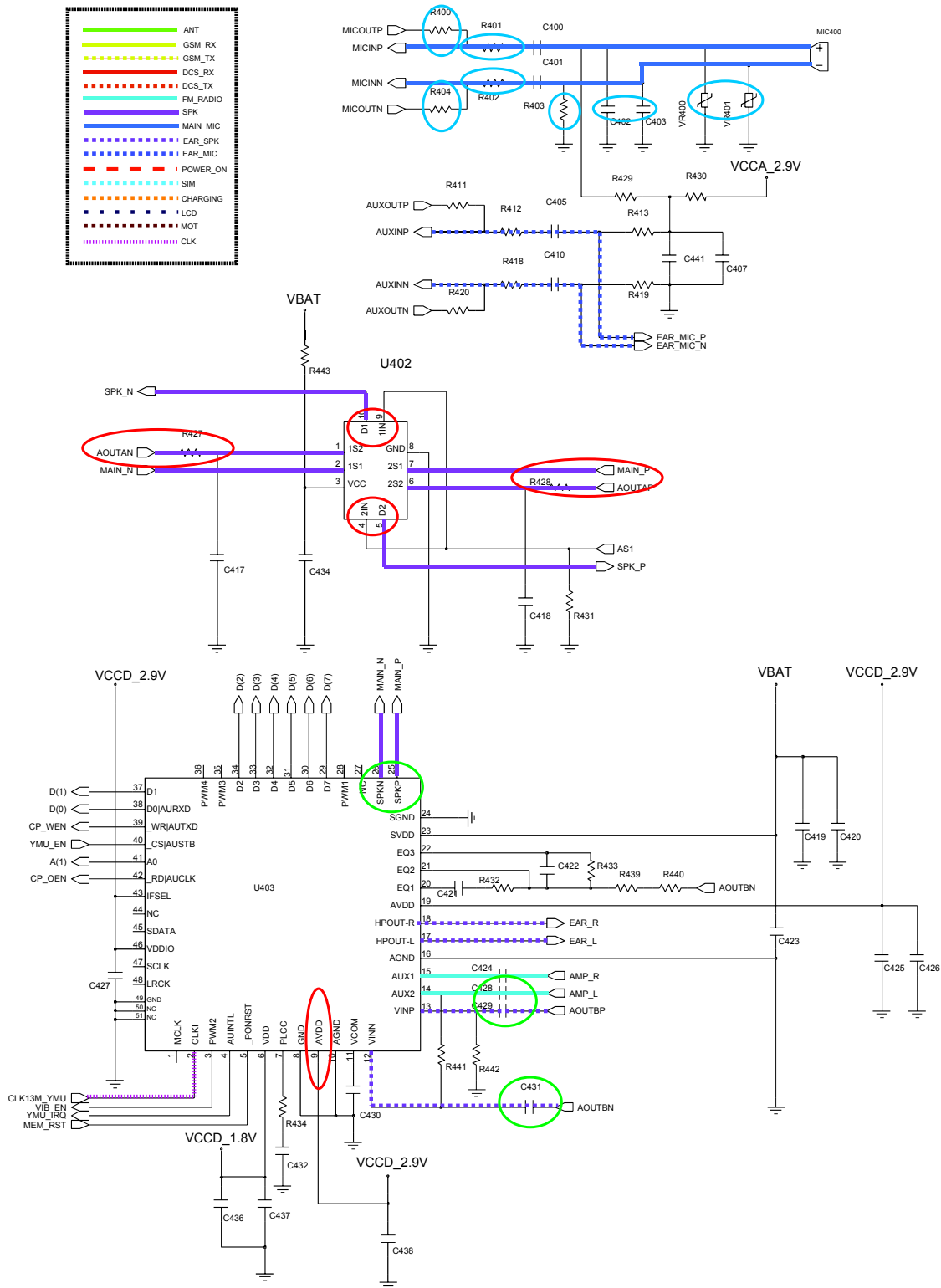


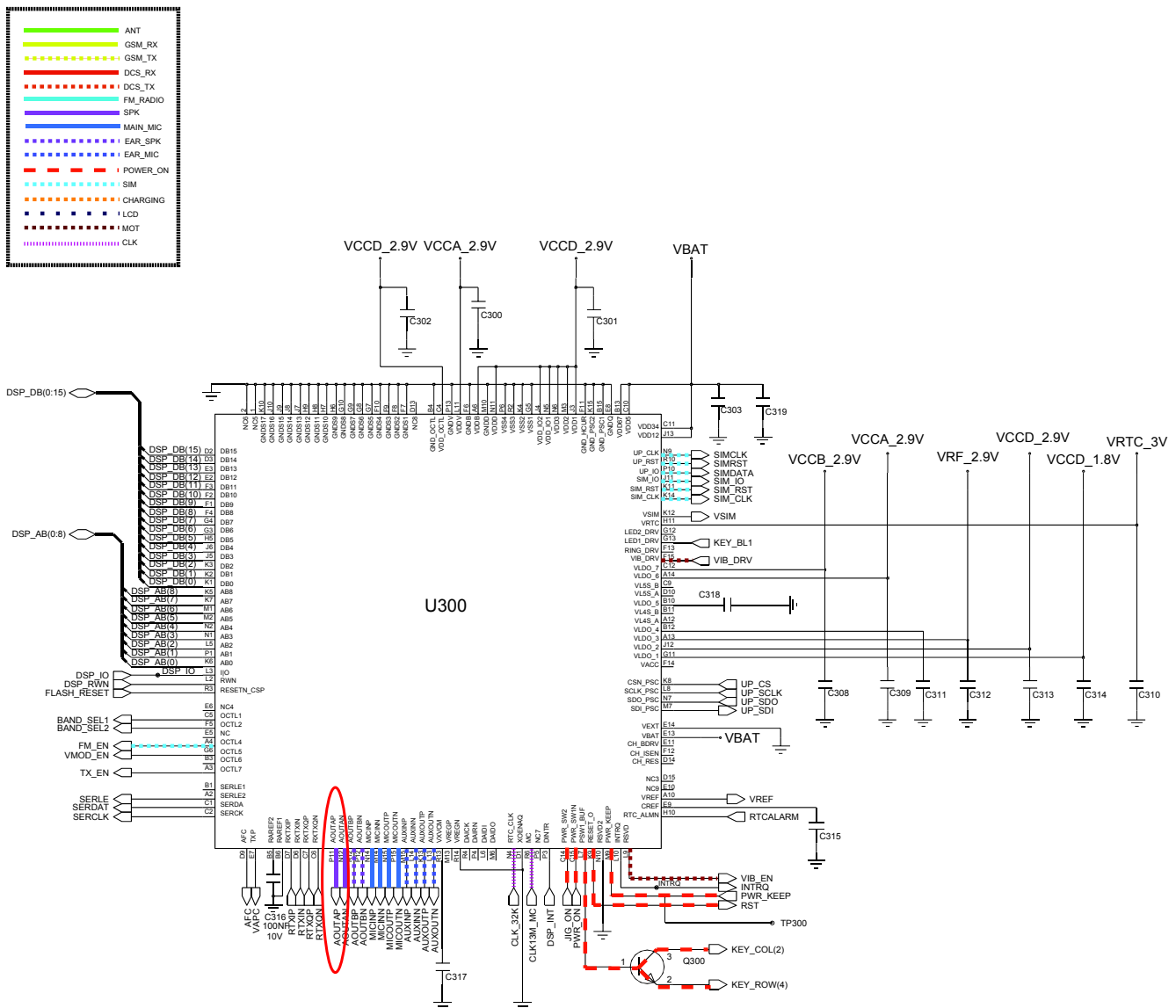
10-1-7. Speaker Part

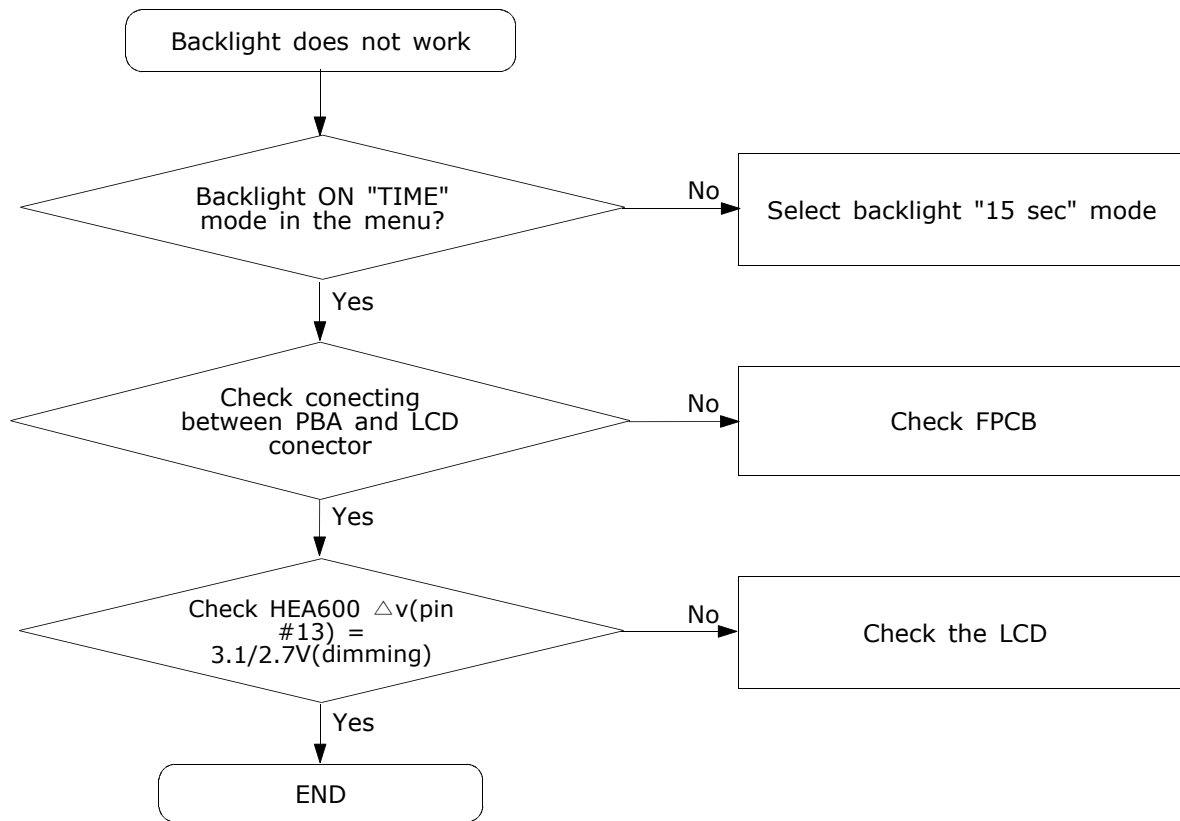




Flow Chart of Troubleshooting

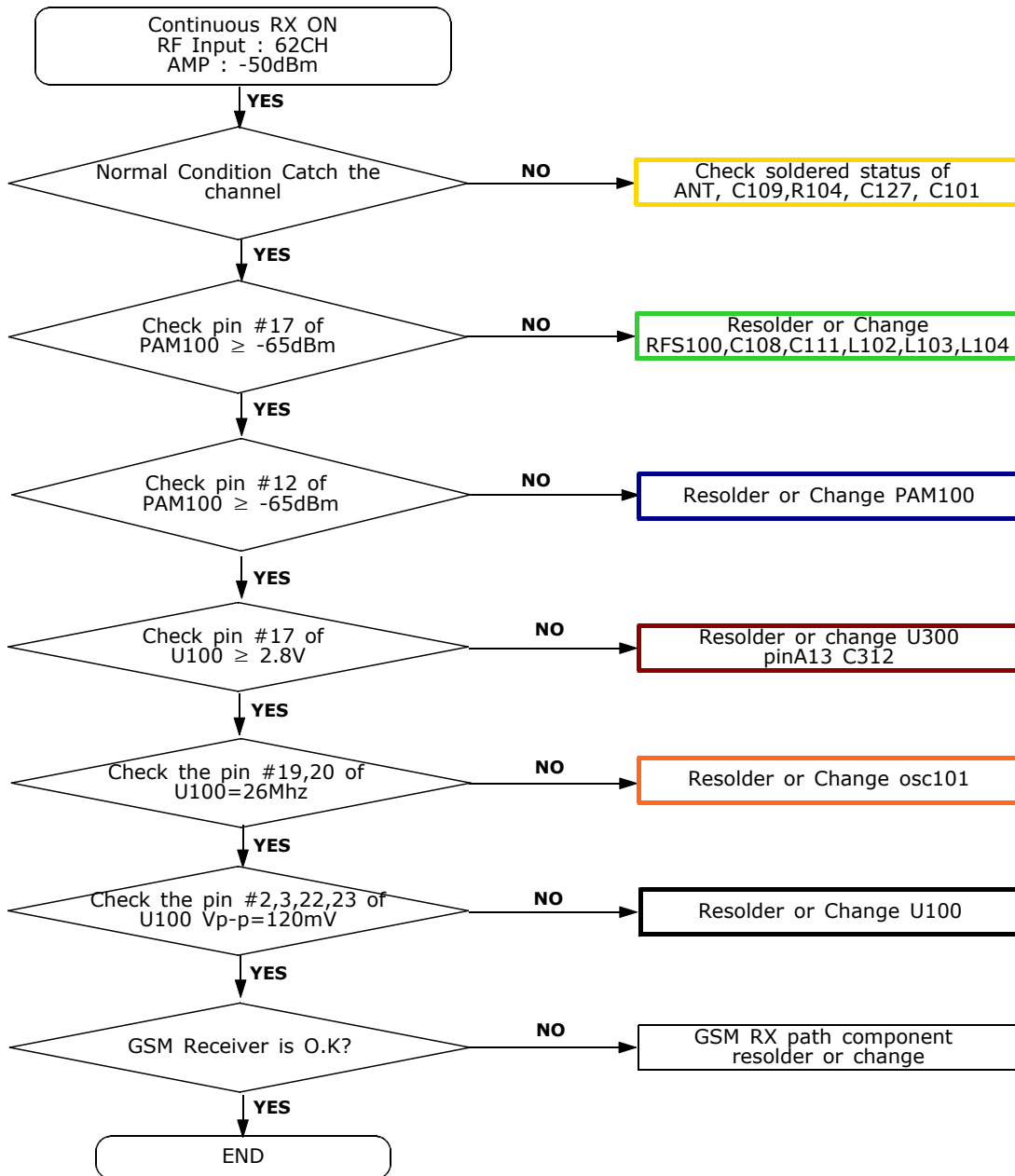




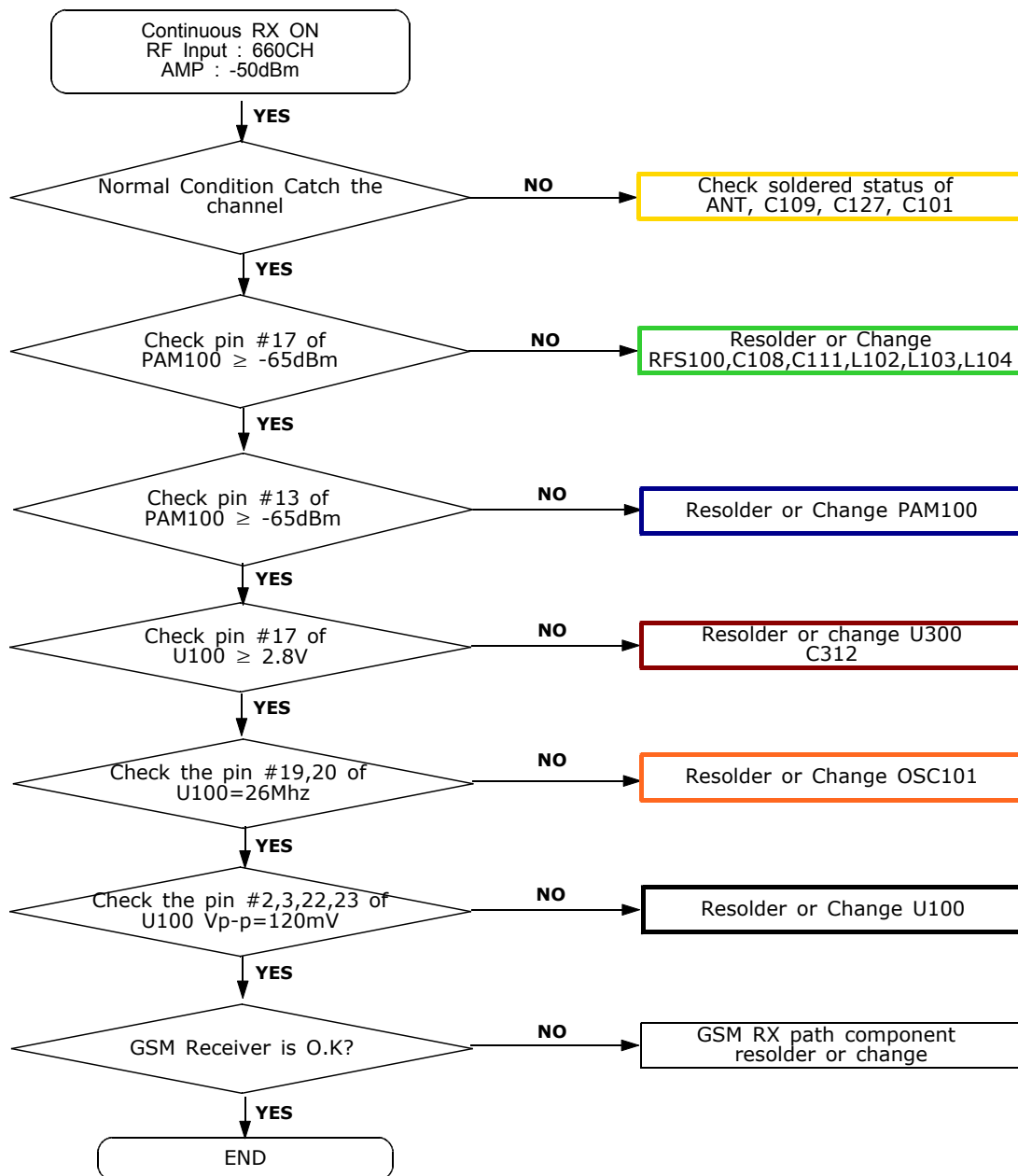
10-1-8. LCD

10-2.RF

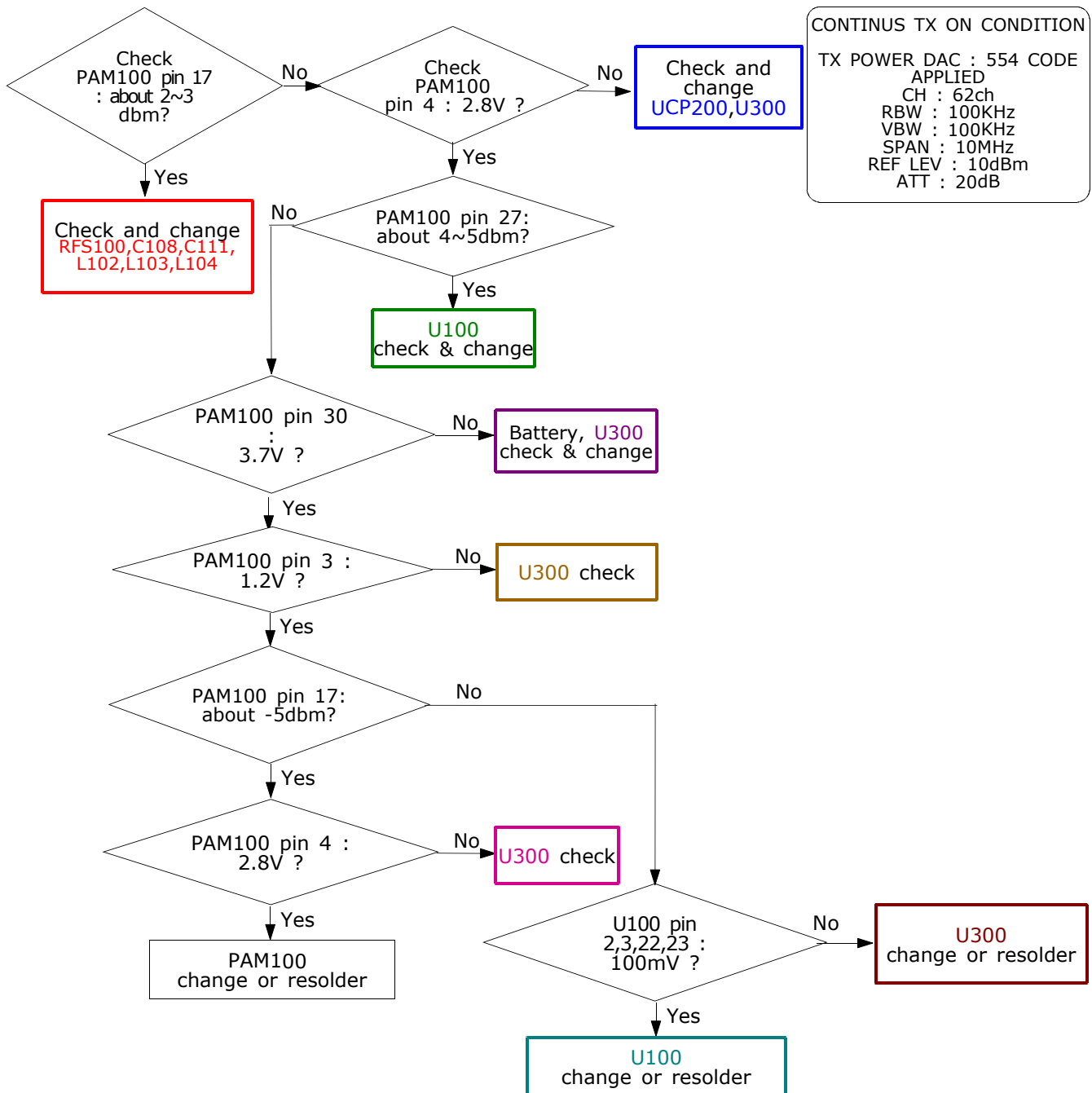
10-2-1. EGSM Rx



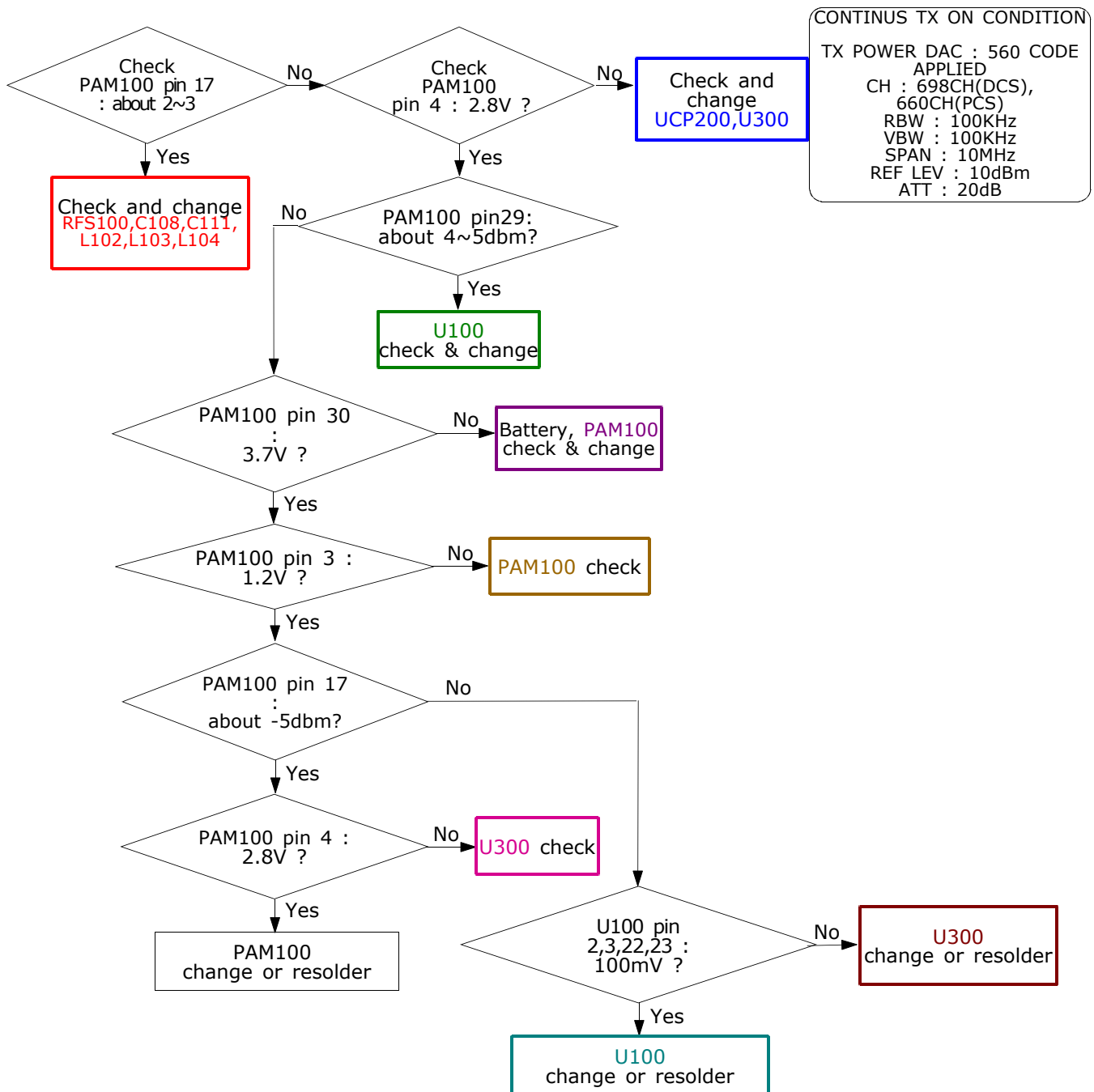
10-2-2. DCS Rx

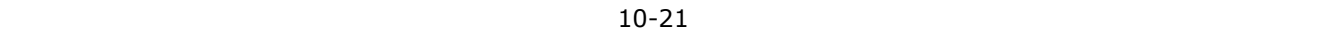


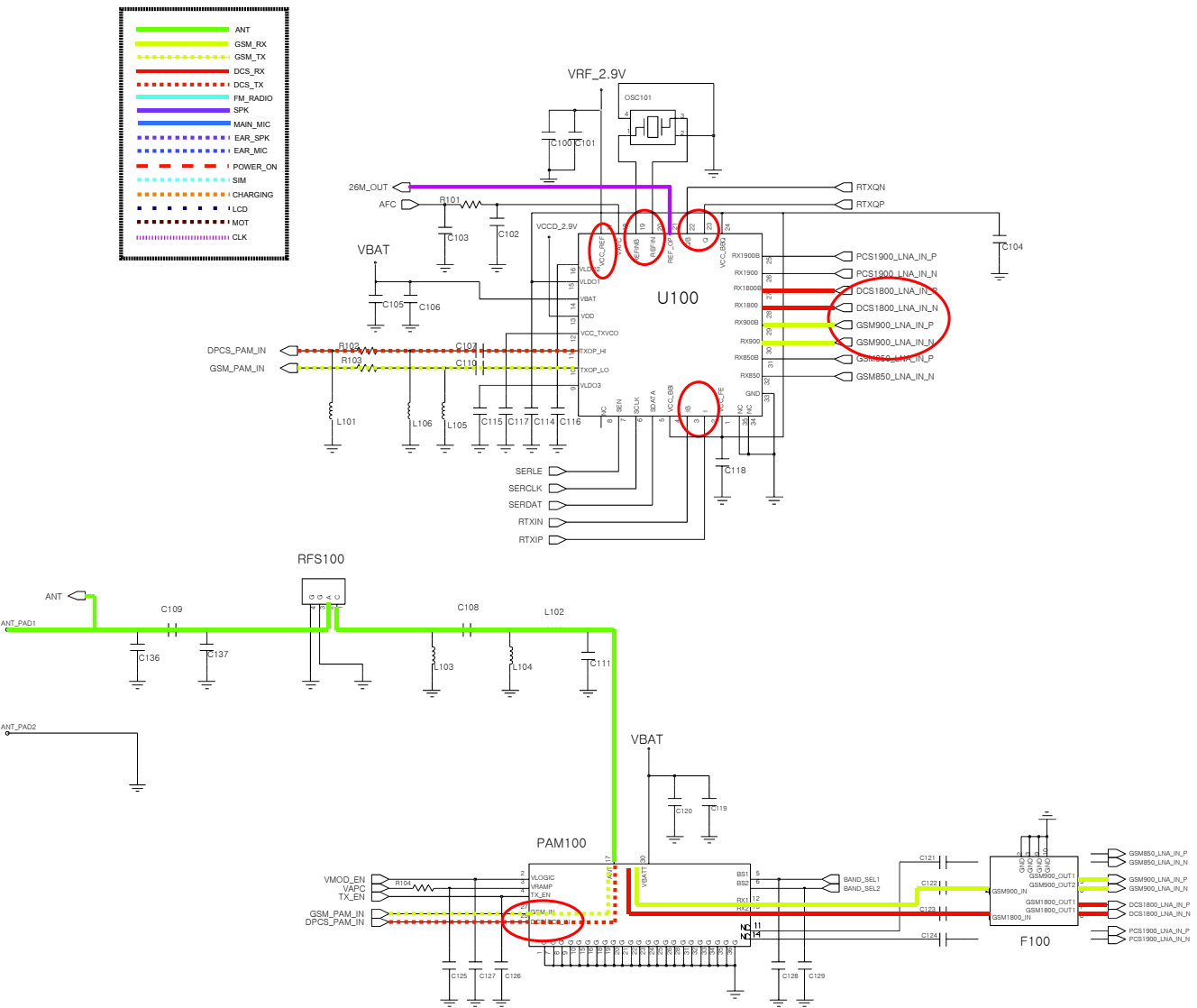
10-2-3. EGSM Tx



10-2-4. DCS Tx







4. Array course control



Test Jig (GH80-00865A)



Test Cable
(0.4M:GH39-00892A, 1.5M:GH39-00895A)



RF Test Cable (GH39-00985A)

Software Downloading

4-1. Downloading Binary Files

- Three binary files for downloading B300.
 - B300XXYY.s3 : Main source code binary.

4-2. Pre-requisite for Downloading

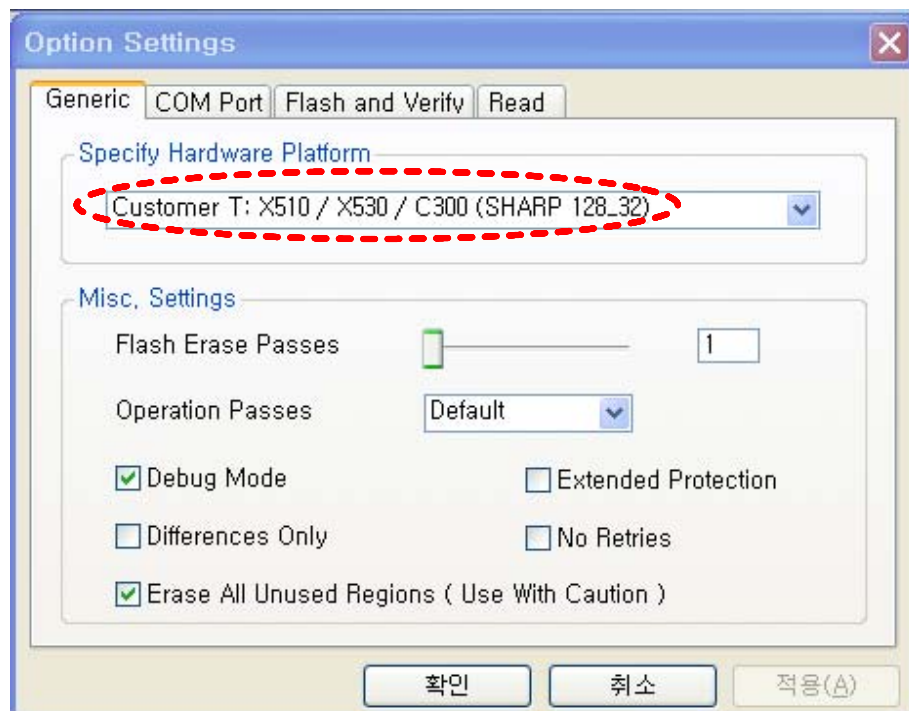
- Downloader Program([OptiFlash.exe](#))
- B300 Mobile Phone
- Data Cable
- Binary files

4-3. S/W Downloader Program

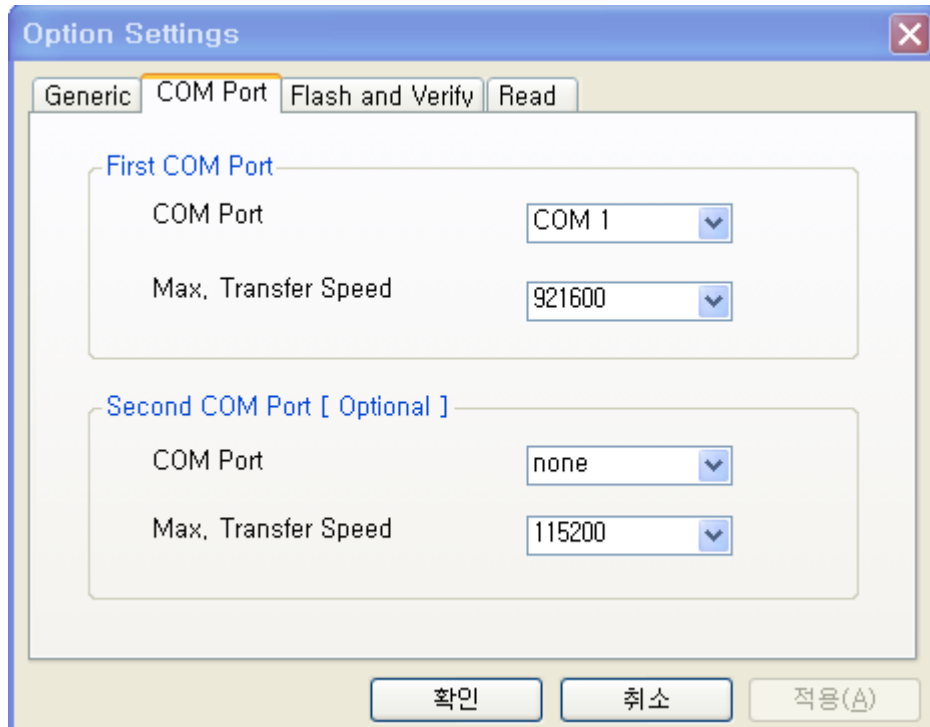
1. Load the binary download program by executing the “OptiFlash.exe”



2. Select the “Options” -> “Settings” -> “Generic” -> “Specify hardware platform”. Choose hardware platform for the downloader file setting. Set the everything else as the default values which are shown below



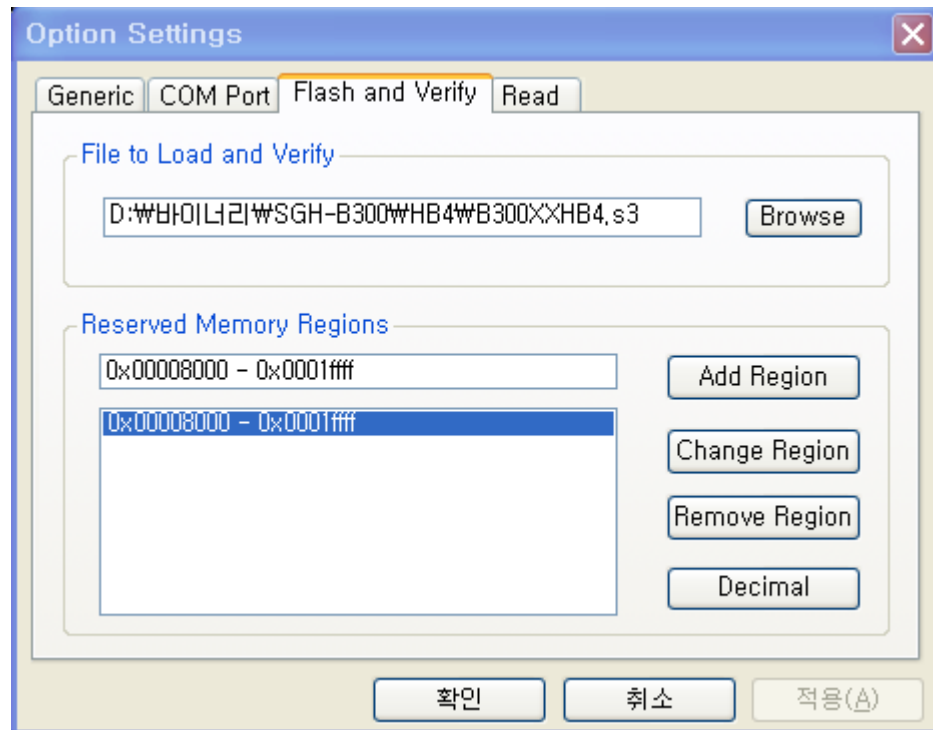
3. Select the **COM port** when the download cable is connected



Up to twelve ports are supported. Additionally you can select the maximum transfer speed OptiFlash will use to communicate with the phone. However, OptiFlash will use a slower speed if either the PC's or the phone's serial hardware is incapable of handling the selected speed

4. Select the “Flash&Verify” -> “Browse”

Set the directory path and choose the latest s/w binary, for example B300XXYY.s3”, for the downloader binary setting.



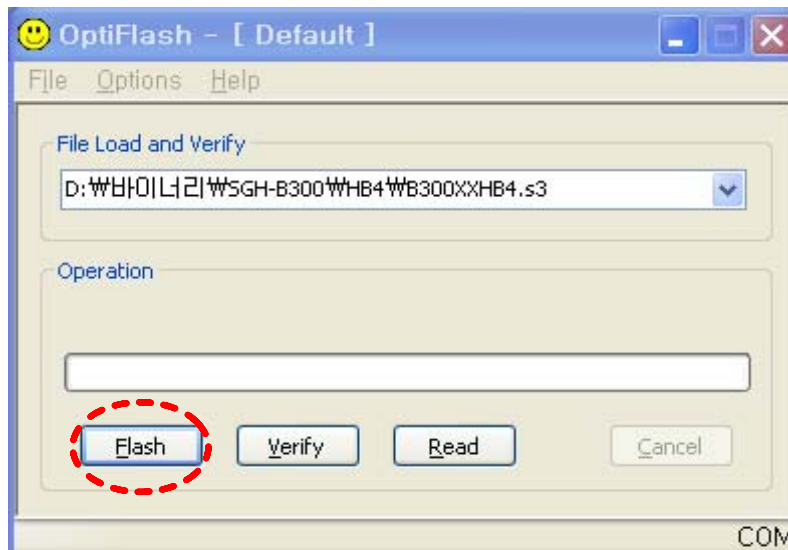
Make sure that not to change the reserved memory regions.

**In case of B108 the reserved memory regions are :
-0x00008000 - 0x0001ffff**

5. Click “**OK**” button then press “**Flash**”.

(Before pressing ‘Flash’ button, push the button “*****” and ‘**END**’ at the same time. Then press ‘Flash’.)

Downloader will upload the binary file as below for the downloading.



6. When downloading is finished successfully, there is a “All is well” message.

7. After finishing downloading, Certain memory resets should be done to guarantee the normal performance.

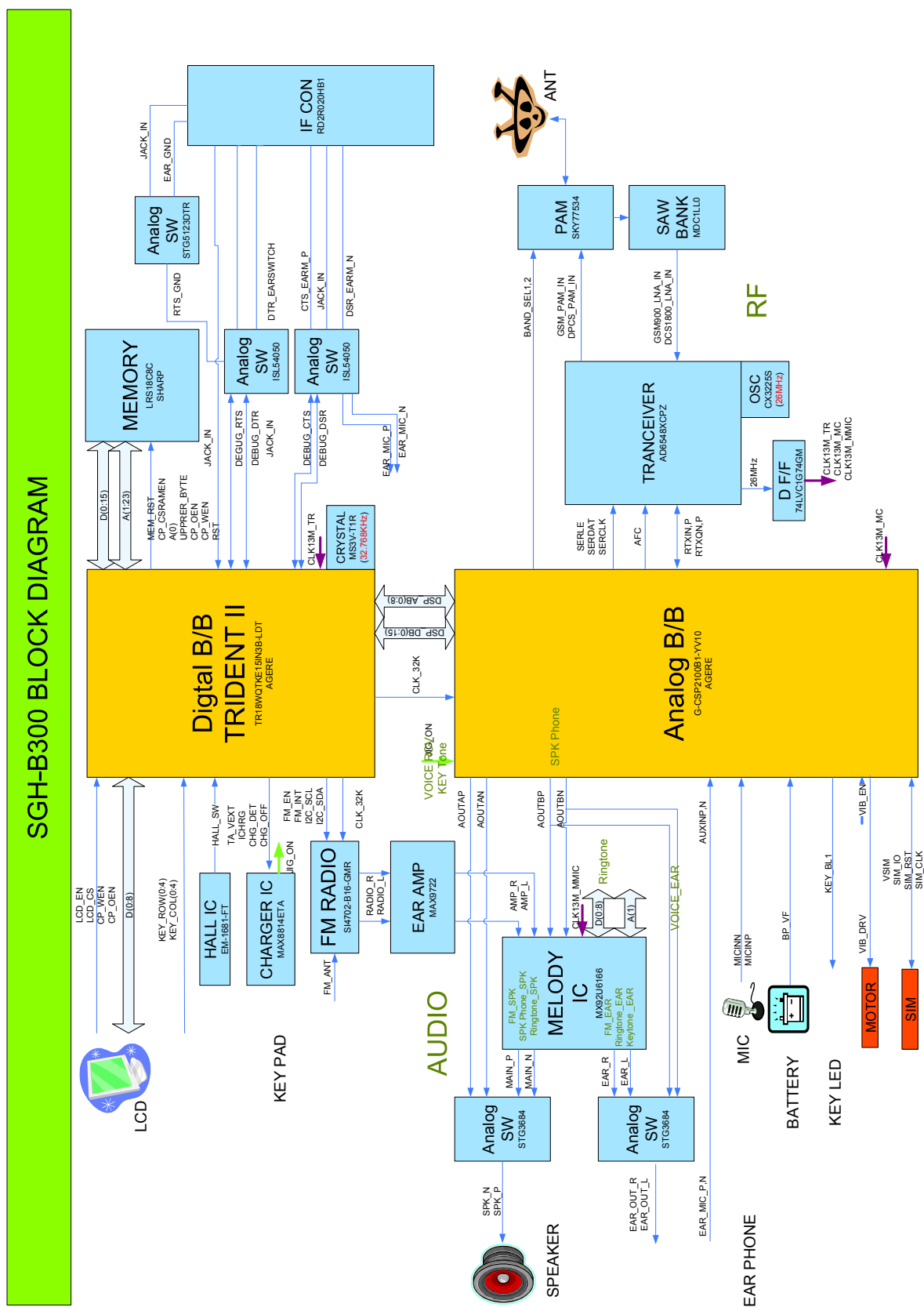
8. Confirm the downloaded version name and etc. :

***#1111#**

Full Reset :

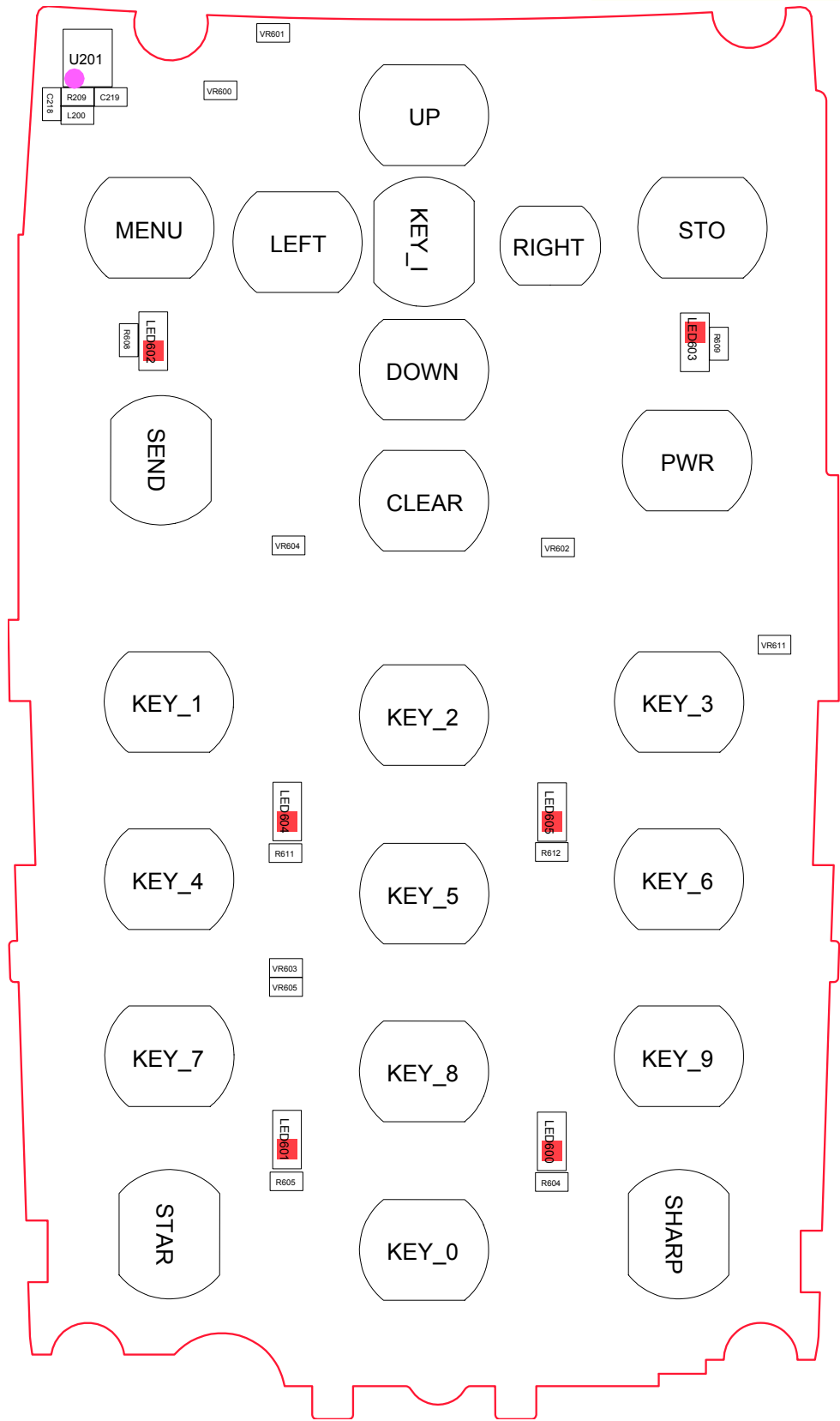
***2767*3855#**

8. Block Diagrams



9. PCB Diagrams





3. Product Function

Main Function

- Speed dial
- Phonebook memory status
- SDN(Service Dialling Numbers)
- Network services
- Read SMS or MMS messages
- Send SMS or MMS messages
- Voicemail
- Broadcast message
- MMS profile
- Wap browser
- FM Radio
- Java Games
- Menu shortcuts

11. Reference data

11-1. Reference Abbreviate

AAC: Advanced Audio Coding.

AVC : Advanced Video Coding.

BER : Bit Error Rate

BPSK: Binary Phase Shift Keying

CA : Conditional Access

CDM : Code Division Multiplexing

C/I : Carrier to Interference

DMB : Digital Multimedia Broadcasting

EN : European Standard

ES : Elementary Stream

ETSI: European Telecommunications Standards Institute

MPEG: Moving Picture Experts Group

PN : Pseudo-random Noise

PS : Pilot Symbol

QPSK: Quadrature Phase Shift Keying

RS : Reed-Solomon

SI : Service Information

TDM : Time Division Multiplexing

TS : Transport Stream

1. Safety Precautions

1-1. Repair Precaution

- Repair in Shield Box, during detailed tuning.
Take specially care of tuning or test,
because specipicty of cellular phone is sensitive for surrounding interference(RF noise).
- Be careful to use a kind of magnetic object or tool,
because performance of parts is damaged by the influence of manetic force.
- Surely use a standard screwdriver when you disassemble this product,
otherwise screw will be worn away.
- Use a thicken twisted wire when you measure level.
A thicken twisted wire has low resistance, therefore error of measurement is few.
- Repair after separate Test Pack and Set because for short danger (for example an
overcurrent and furious flames of parts etc) when you repair board in condition of
connecting Test Pack and tuning on.
- Take specially care of soldering, because Land of PCB is small and weak in heat.
- Surely tune on/off while using AC power plug, because a repair of battery charger is
dangerous when tuning ON/OFF PBA and Connector after disassembling charger.
- Don't use as you pleases after change other material than replacement registered on SEC
System.
Otherwise engineer in charge isn't charged with problem that you don't keep this rules.

1-2. ESD(Electrostatically Sensitive Devices) Precaution

Several semiconductor may be damaged easily by static electricity. Such parts are called by ESD(Electrostatically Sensitive Devices), for example IC,BGA chip etc. Read Precaution below. You can prevent from ESD damage by static electricity.

- Remove static electricity remained your body before you touch semiconductor or parts with semiconductor. There are ways that you touch an earthed place or wear static electricity prevention string on wrist.
- Use earthed soldering steel when you connect or disconnect ESD.
- Use soldering removing tool to break static electricity. , otherwise ESD will be damaged by static electricity.
- Don't unpack until you set up ESD on product. Because most of ESD are packed by box and aluminum plate to have conductive power,they are prevented from static electricity.
- You must maintain electric contact between ESD and place due to be set up until ESD is connected completely to the proper place or a circuit board.

6. MAIN Electrical Parts List

SEC CODE	Design LOC	Discription
0403-001547	ZD502	DIODE-ZENER
0406-001241	ZD500	DIODE-TVS
0406-001241	ZD501	DIODE-TVS
0504-000168	Q300	TR-DIGITAL
0601-002361	LED600	LED
0601-002361	LED601	LED
0601-002361	LED602	LED
0601-002361	LED603	LED
0601-002361	LED604	LED
0601-002361	LED605	LED
0801-003206	U101	IC-CMOS LOGIC
1001-001428	U402	IC-ANALOG MULTIPLEX
1001-001428	U404	IC-ANALOG MULTIPLEX
1001-001428	U500	IC-ANALOG MULTIPLEX
1001-001428	U502	IC-ANALOG MULTIPLEX
1001-001488	U501	IC-ANALOG SWITCH
1009-001020	U201	IC-HALL EFFECT S/W
1108-000111	UME200	IC-MCP
1201-002180	U401	IC-AUDIO AMP
1201-002731	PAM100	IC-POWER AMP
1203-003897	U300	IC-POWER SUPERVISOR
1203-005005	U301	IC-BATTERY
1204-002700	U400	IC-TUNER
1204-002783	U403	IC-SOUND GENERATOR
1205-003098	U100	IC-TRANSCIEVER
1205-003412	UCP200	IC-MODEM
1404-001165	TH200	THERMISTOR-NTC
1405-001082	VR500	VARISTOR
1405-001082	VR501	VARISTOR
1405-001082	VR502	VARISTOR
1405-001082	VR503	VARISTOR
1405-001082	VR601	VARISTOR
1405-001082	VR602	VARISTOR
1405-001082	VR603	VARISTOR
1405-001082	VR604	VARISTOR
1405-001082	VR612	VARISTOR
1405-001108	VR600	VARISTOR

SEC CODE	Design LOC	Discription
1405-001108	VR605	VARISTOR
1405-001121	VR200	VARISTOR
1405-001200	VR400	VARISTOR
1405-001200	VR401	VARISTOR
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2007-000138	R501	R-CHIP
2007-000138	R518	R-CHIP
2007-000140	R507	R-CHIP
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2007-000140	R513	R-CHIP
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2007-000143	R421	R-CHIP
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2007-000148	R104	R-CHIP
2007-000148	R306	R-CHIP
2007-000148	R307	R-CHIP
2007-000151	R414	R-CHIP
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2007-000156	R409	R-CHIP
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2007-000157	R512	R-CHIP
2007-000157	R600	R-CHIP
2007-000160	R433	R-CHIP
2007-000161	R400	R-CHIP
2007-000161	R404	R-CHIP

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2007-000162	R202	R-CHIP
2007-000162	R204	R-CHIP
2007-000162	R209	R-CHIP
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2007-000162	R408	R-CHIP
2007-000162	R503	R-CHIP
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2007-000162	R516	R-CHIP
2007-000162	R520	R-CHIP
2007-000170	R108	R-CHIP
2007-000170	R111	R-CHIP
2007-000171	R214	R-CHIP
2007-000171	R424	R-CHIP
2007-000171	R519	R-CHIP
2007-000172	R210	R-CHIP
2007-000172	R211	R-CHIP
2007-000775	R432	R-CHIP
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2007-001119	R430	R-CHIP
2007-001217	R103	R-CHIP
2007-001284	R200	R-CHIP
2007-001284	R610	R-CHIP
2007-001288	R604	R-CHIP
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2007-001288	R608	R-CHIP
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2007-001288	R612	R-CHIP
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2007-001291	R428	R-CHIP
2007-001292	R505	R-CHIP
2007-001292	R506	R-CHIP
2007-001308	R107	R-CHIP
2007-001325	R308	R-CHIP
2007-001325	R434	R-CHIP

SEC CODE	Design LOC	Discription
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2007-007107	R206	R-CHIP
2007-007142	R401	R-CHIP
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2007-007314	R207	R-CHIP
2007-007317	R419	R-CHIP
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2007-007573	R205	R-CHIP
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2007-009402	R429	R-CHIP
2007-009408	R403	R-CHIP
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2203-000233	C310	C-CER,CHIP
2203-000233	C404	C-CER,CHIP
2203-000254	C102	C-CER,CHIP
2203-000254	C105	C-CER,CHIP
2203-000254	C204	C-CER,CHIP
2203-000254	C207	C-CER,CHIP
2203-000254	C209	C-CER,CHIP
2203-000254	C210	C-CER,CHIP
2203-000254	C212	C-CER,CHIP
2203-000254	C221	C-CER,CHIP
2203-000254	C300	C-CER,CHIP
2203-000254	C302	C-CER,CHIP
2203-000254	C305	C-CER,CHIP
2203-000278	C122	C-CER,CHIP
2203-000359	C422	C-CER,CHIP
2203-000386	C130	C-CER,CHIP
2203-000425	C123	C-CER,CHIP
2203-000425	C216	C-CER,CHIP
2203-000425	C217	C-CER,CHIP

SEC CODE	Design LOC	Discription
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2203-000438	C432	C-CER,CHIP
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2203-000679	C131	C-CER,CHIP
2203-000679	C203	C-CER,CHIP
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2203-000812	C127	C-CER,CHIP
2203-000812	C128	C-CER,CHIP
2203-000812	C129	C-CER,CHIP
2203-000812	C133	C-CER,CHIP
2203-000812	C417	C-CER,CHIP
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2203-000812	C433	C-CER,CHIP
2203-000812	C435	C-CER,CHIP
2203-000812	C601	C-CER,CHIP
2203-000812	C602	C-CER,CHIP
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2203-000812	C612	C-CER,CHIP
2203-000812	C613	C-CER,CHIP
2203-000812	C614	C-CER,CHIP
2203-000812	C615	C-CER,CHIP
2203-000812	C618	C-CER,CHIP
2203-000812	C619	C-CER,CHIP
2203-000854	C100	C-CER,CHIP
2203-000854	C103	C-CER,CHIP
2203-000854	C104	C-CER,CHIP
2203-000940	C616	C-CER,CHIP
2203-000995	C108	C-CER,CHIP
2203-000995	C110	C-CER,CHIP
2203-000995	C219	C-CER,CHIP

SEC CODE	Design LOC	Discription
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2203-000995	C502	C-CER,CHIP
2203-002668	C107	C-CER,CHIP
2203-005052	C113	C-CER,CHIP
2203-005056	C109	C-CER,CHIP
2203-005065	C308	C-CER,CHIP
2203-005065	C309	C-CER,CHIP
2203-005065	C311	C-CER,CHIP
2203-005065	C313	C-CER,CHIP
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2203-005482	C503	C-CER,CHIP
2203-005482	C510	C-CER,CHIP
2203-005482	C600	C-CER,CHIP
2203-005993	C405	C-CER,CHIP
2203-005993	C410	C-CER,CHIP
2203-006047	C115	C-CER,CHIP

SEC CODE	Design LOC	Discription
2203-006048	C132	C-CER,CHIP
2203-006048	C419	C-CER,CHIP
2203-006048	C426	C-CER,CHIP
2203-006123	C402	C-CER,CHIP
2203-006123	C403	C-CER,CHIP
2203-006137	C206	C-CER,CHIP
2203-006137	C213	C-CER,CHIP
2203-006137	C315	C-CER,CHIP
2203-006137	C421	C-CER,CHIP
2203-006137	C505	C-CER,CHIP
2203-006257	C318	C-CER,CHIP
2203-006257	C420	C-CER,CHIP
2203-006257	C617	C-CER,CHIP
2203-006260	C116	C-CER,CHIP
2203-006260	C208	C-CER,CHIP
2203-006260	C211	C-CER,CHIP
2203-006324	C303	C-CER,CHIP
2203-006324	C304	C-CER,CHIP
2203-006348	C307	C-CER,CHIP
2203-006361	C120	C-CER,CHIP
2203-006556	C620	C-CER,CHIP
2203-006562	C317	C-CER,CHIP
2203-006562	C319	C-CER,CHIP
2203-006562	C406	C-CER,CHIP
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2203-006562	C416	C-CER,CHIP
2203-006562	C430	C-CER,CHIP
2203-006562	C434	C-CER,CHIP
2203-006562	C437	C-CER,CHIP
2203-006562	C506	C-CER,CHIP
2203-006626	C106	C-CER,CHIP
2203-006824	C312	C-CER,CHIP
2203-006824	C314	C-CER,CHIP
2203-006824	C423	C-CER,CHIP
2203-006841	C605	C-CER,CHIP

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2203-006872	C438	C-CER,CHIP
2203-007143	C400	C-CER,CHIP
2203-007143	C401	C-CER,CHIP
2404-001393	TA501	C-TA,CHIP
2404-001393	TA502	C-TA,CHIP
2404-001406	TA500	C-TA,CHIP
2703-001236	L108	INDUCTOR-SMD
2703-001751	L106	INDUCTOR-SMD
2703-002178	L503	INDUCTOR-SMD
2703-002208	L102	INDUCTOR-SMD
2703-002269	L103	INDUCTOR-SMD
2801-004353	OSC200	CRYSTAL-SMD
2801-004689	OSC101	CRYSTAL-SMD
2904-001811	F100	FILTER-SAW
3301-001342	L110	BEAD-SMD
3301-001885	L200	BEAD-SMD
3301-001885	L501	BEAD-SMD
3301-001885	L502	BEAD-SMD
3705-001503	RFS100	CONNECTOR-COAXIAL
3709-001384	SIM600	CONNECTOR-CARD EDGE
3710-002499	IFC500	SOCKET-INTERFACE
3711-005954	HEA600	HEADER-BOARD TO BOARD
3711-006228	BTC500	HEADER-BATTERY

Please consult the GSPN website (Samsung Portal) for the most recent version of the product's part list.